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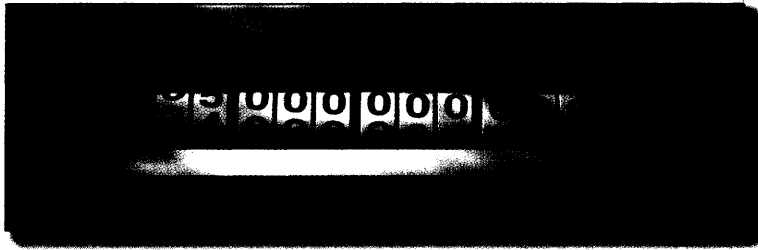
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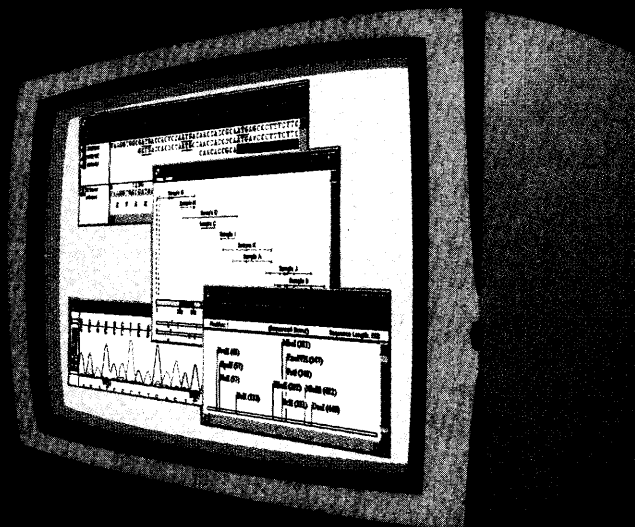
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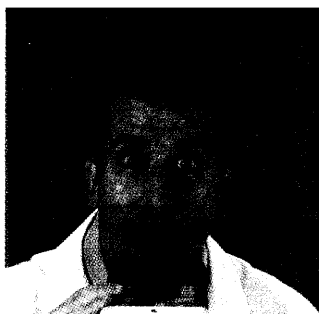
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September 2000

The AAAS Annual Meeting is always one of the year's premier scientific events, and we expect the 2001 meeting to be truly exciting. The program is diverse, comprehensive and showcases some of the most exciting, cutting edge work in science and engineering. We are assembling lectures, symposia, seminars and other events that will challenge and inform you on a wide array of emerging issues in science, engineering and technology.

Many remarkable advances in science and engineering hold great promise for the future. With completion of the human genome, attention turns now to the application of this massive body of information. The 2001 Genome Seminar will examine many of the issues, including drug development, proteomics, data management and ethics that this new frontier presents. Equally exciting are the startling potentials that will be presented in a special seminar on nanotechnology. Leading researchers will present the opportunities and challenges of nanotechnology in materials science, medicine, electronics, and computing.

In addition to the outstanding sessions on cutting edge science and engineering, the meeting will provide the unusual opportunity to hear in-depth discussions on a wide range of issues that confront us all—from how to best educate our children to the role of science in government to international environmental initiatives.

With meeting co-chairs, Michael Bishop of the University of California at San Francisco and Goéry Delacôte of the Exploratorium, I invite you to be a part of a most exciting and intellectually stimulating week.

I look forward to seeing you in San Francisco!

Sincerely,

Mary L. Good
AAAS President, University of Arkansas at Little Rock and Venture Capital Investors, L.L.C.

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Plenary Lectures

Thursday, February 15

Student Science Convocation

5:00PM

American Junior Academy of Sciences' Poster Displays

AAAS President's Lecture and Reception

6:30PM

Mary L. Good, President, AAAS, Venture Capital Investors and University of Arkansas at Little Rock

Friday, February 16

Plenary Lecture

6:30PM

TBA

Saturday, February 17

Plenary Lecture

6:30PM

Christiane Nüsslein-Volhard,* Director, Genetics Division, Max-Planck-Institute for Developmental Biology

Sunday, February 18

Plenary Lecture

6:30PM

J. Craig Venter, President and CEO, Celera Genomics

Monday, February 19

Plenary Lecture

8:00AM

Robert Rubin,* Board of Directors, Citigroup

Plenary Lecture

6:30PM

David Malin, Photographic Scientist and Astronomer, Anglo-Australian Observatory

*Invited, not yet confirmed

Topical Lectures

Friday, February 16

■ Morning Lectures (8:00AM–8:45AM)

Larry Gonick,* San Francisco, CA
A Cartoon Guide to Science

☎ Luis Villarreal, University of California-Irvine
Molecular Evolution of Retroviruses

■ Special Lecture (12:30PM–1:15PM)

Philippe Busquin, Commission for Research-European Union
Towards a European Research Area Opened to the World

■ Afternoon Lectures (1:30PM–2:15PM)

Gen. Lee Butler,* Second Chance Foundation

Troy Duster, University of California-Berkeley
Human Genetic Technologies and Taxonomies: Old Wine in New Bottles and New Wine in Old Bottles

Judy Kegl, University of Southern Maine
Language Emergence in a Language-Ready Brain

☎ Lisa Randall,* Massachusetts Institute of Technology
Particle Physics

Saturday, February 17

■ Morning Lectures (8:00AM–8:45AM)

J. Michael Bishop,* University of California-San Francisco

Charles Groat,* U.S. Geological Survey
Natural Hazard Reduction

☎ Maria Elena Zavala,* California State University-Northridge
Molecular Signaling

■ Afternoon Lectures (2:00PM–2:45PM)

Donald Kennedy,* Stanford University and *Science Magazine*

Isaiah Warner, Louisiana State University
Diversity: A Necessary Component of Science

JOHN P. MCGOVERN AWARD LECTURE:
Brenda Milner, Montreal Neurological Institute, McGill University
Memory

Lectures

☎ Francis Collins, National Center for Human Genome Research, National Institutes of Health
The Human Genome

Sunday, February 18

■ Morning Lectures (8:00AM–8:45AM)

Adrian Desmond,* University College, Britain
Huxley

Mark Yim,* Xerox PARC
Robots

☎ Alison Gopnik, University of California-Berkeley
The Scientist in the Crib

■ Special Lecture (1:00PM–1:45PM)

Rita Colwell, National Science Foundation

■ Afternoon Lectures (2:00PM–2:45PM)

Jerry Nelson,* University of California-Santa Cruz
Astronomy and Adaptive Optics

George Rathmann,* Hyseq, Inc.

GEORGE SARTON AWARD LECTURE:
David A. Hollinger, University of California-Berkeley
Why are Jews Preeminent in Science and Scholarship? The Veblen Thesis of 1919 Reconsidered

☎ Cynthia Kenyon,* University of California-San Francisco
Aging

Monday, February 19

■ Afternoon Lectures (2:00PM–2:45PM)

Walter Alvarez,* University of California-Berkeley
Extinction of the Dinosaurs

Goéry Delacôte, The Exploratorium
Science Education and the Science Museum

Some titles are tentative, pending confirmation by lecturer
*Invited, not yet confirmed

☎ Science Innovation

Seminars

NANOTECHNOLOGY A New Frontier for Science and Engineering

Thursday, February 15
12:00NOON–5:30PM

Friday, February 16
9:00AM–12:00NOON
2:30PM–5:30PM

Organized by Philip H. Abelson, AAAS,
Charles W. Clark, National Institute of Standards
and Technology, James Ellenbogen, Mitre
Corporation, Paul Alivisatos, University of
California-Berkeley, and Michael S. Strauss, AAAS

The emerging field of nanotechnology provides new opportunities to transform wide areas of science and engineering. The unique behavior of nanoscale materials enables them to serve as catalysts and to take advantage of giant magnetic resistance they afford. Further, new instrumentation is providing the tools for exploration and manipulation of the nanoscale environment. As a successor to the current technology employed in silicon and other semiconductor devices, nanoscale materials promise a new “computer revolution.” Laboratories and research institutes in the U.S. have been increasingly

active in studies related to nanotechnology and nanoengineering. However, these face a rapidly increasing global competition. To this end, recent government initiatives provide promise of much-needed funding for this work. This seminar will examine important opportunities presented by nanotechnology for engineering, technology, science and society. It will encompass several areas where this technology promises transforming innovations showcasing the work of leading scientists and engineers in this emerging field.

2001 GENOME SEMINAR Beyond the Human Genome

Saturday, February 17
9:00AM–12:00NOON
3:00PM–6:00PM

Sunday, February 18
9:00AM–12:00NOON
3:00PM–6:00PM

Organized by J. Craig Venter, Celera Genomics,
Barbara Jasny and Pam Hines, AAAS and *Science*

The recent sequencing of the human genome, although it represents an enormous landmark in the history of science, is not the end but the beginning of a new era of research. From microarray technology to DNA vaccines to taking the first steps into the new frontier of proteomics—this two-day seminar explores the new kinds of research that will be possible and the new technologies being developed. Included will be discussions of the ethical issues that are specific

to the research community's use of the data, as well as issues that will have to be faced by society as a whole.

The 2001 Genome Seminar is cosponsored by AAAS, *Science Magazine* and The Institute for Genomic Research (TIGR)

2001 FORUM FOR SCHOOL SCIENCE Making Sense of Technology: Tools and Tactics for Educational Achievement

Sunday, February 18
1:00PM–6:00PM

Monday, February 19
9:30AM–6:30PM

Organized by Shirley M. Malcom and
Betty Calinger, AAAS

Beginning with the Office of Technology Assessment's report *Power On!* (1988), practitioners, policymakers, researchers and others have stated that investments in technology—hardware, software, infrastructure and content cannot be effective (and that they may be wasted) unless teachers are prepared and supported in the integration of information technologies. The 2001 Forum for School Science will be devoted to examining the challenges and strategies for using technology to learn and teach science and mathematics. Areas to be explored include: ways to use

technology to provide professional development for practicing teachers and pre-service teachers; learning how to use technology as a tool for teaching; the role of technology in solving issues of equitable access; and using technology other than computers to create authentic experiences in the field. The program will include teachers, researchers, developers of technology and industry representatives.

Symposia

Brain, Mind and Behavior

- FRI AM** Reading & Dyslexia: The Brain
FRI PM Addiction Is a Brain Disease
FRI PM Statistics in Natural Language
SAT AM Origin of Mathematical Thinking
SAT PM Many Languages—One Grammar
SUN AM The Human Brain After Injury
SUN AM Wine & Conversation
SUN PM Precursors to Human Communication
MON AM Modality Effects on Language
MON PM Language Learning in Infancy

Communicating Science

- FRI AM** From Juggling & Magic to Combinatorics
FRI AM Who Should Write the Story of Science?
FRI PM Communicating the Future
SAT AM Science & the News Media
SAT PM Science Is Fun!
SUN AM Science & Conflicts of Interests
SUN PM Communicating Sustainability
MON AM Biotechnology Communications
MON PM What Makes a Science Book Become a Best Seller?
TUE AM Science Fiction & Science

Doing Science Globally

- FRI AM** Int'l Efforts to Stop Invasive Species
FRI PM Science & Health Disparities
FRI PM Int'l Efforts to Stop Invasive Species
SAT AM Science at the Earth's Poles
SAT AM Drug Abuse Research: Latin America
SAT PM Science at the Earth's Poles
SAT PM Science & Technology in Latin America
SUN PM Pollutants Without Borders
SUN PM Agr Biotech & the Public Sector
MON AM Globalization of Science
MON PM Global Perspectives on Emerging Research
MON PM Capital, Innovation & the Pacific Rim

Education and Public Understanding of Science

- FRI AM** Science Education as a Subversive Activity?
FRI PM Policy for Pre-College Science Education
SAT AM Minority Outreach in Science & Math
SAT PM Technological Literacy
SUN AM Beyond TIMSS: Professional Development
SUN AM Making Active Learning Successful
SUN PM Journey Beyond TIMSS: New Insights
SUN PM "Antievolutionism": What Changed?
MON AM Computerized Adaptive Testing
MON AM Collaboration of Scientists & Museums
MON PM The Literacy Crisis in Deaf Education
MON PM Bringing Space Science to Earth
MON PM Historical Sciences & Science Education
TUE AM Genetically Modified Foods

Environment, Food and Natural Resources

- FRI AM** Prospects for Feeding 10 Billion People
FRI PM The Livestock Revolution
SAT AM Food Safety & the Tech Revolution
SAT AM Subglacial Lakes: Planetary Perspective
SAT PM Carbon Mgmt, Energy & Environment
SAT PM Natural Disasters Along the Pacific Rim
SUN AM Pre-European Landscapes of the West
SUN PM Advances in Wine & Cheese
SUN PM The Aquaculture Paradox
MON AM Archaeology & Sustainable Development
TUE AM Science & Water Issues of Northern CA

Life Science and the Science of Life

- FRI AM** Deep-Sea Hydrothermal Vents: Life
FRI PM Phylogeny, Evolution & Genomics of Plants
SAT AM Understanding Domestication
SAT PM The Scientific Role of National Parks
SUN AM Biology Into Space: Gravity
SUN AM The Future of Plant and Animal Biotech
SUN PM Earth System Science: Quiet Revolution
SUN PM Life is Complex
MON PM Influences on Biol Community Structure

Looking Beyond Earth

- FRI AM** Assembling the Universe: Star Formation
SAT AM From Gas and Gravity to Galaxies
SAT PM Rebuilding the Galactic Neighborhood
SUN AM A Telescope the Size of Earth
MON AM Infrared Astronomy: Molecules of Life
MON PM Human Exploration of Space
MON PM Planetary Systems: Origin and Evolution

Medicine and Public Health

- FRI AM** Support During Pregnancy & Birth
FRI AM Bioactive Lipids & Drug Discovery
FRI PM Non-Injectable Insulin—A Reality?
FRI PM Stem Cell & Parkinson's Disease
FRI PM The Rebirth of Tetracyclines
SAT AM Malaria in Africa
SAT AM Screening for Inborn Diseases
SAT PM The Autoimmune Diseases—Why Women?
SUN AM Stress & Health
SUN PM How Long Can Humans Live?
MON AM Mathematics & Medicine
MON PM Obesity: Causes & Solutions

Science and Society

- FRI AM** Cultivating the Civic Scientist
FRI AM Language & the Criminal Law
FRI PM Visual Symbiosis of Art & Math
FRI PM Statistics & Human Rights
SAT AM Bio-Technology & Bio-Weapons
SAT PM Recruiting & Retaining Minorities
SAT PM Technology & Cultural Heritage Materials
SUN AM Native American Human Remains
SUN AM Music & Statistical Models
SUN PM Science for the Community
SUN PM The Return of 'Collegiality' to Science
MON AM To Pledge or Not to Pledge
MON AM Mathematics in Pricing & Hedging
MON PM The Research Museum

Science and the Biosphere

- FRI AM** Sustainable Coasts: Counting the Costs
SAT AM The Scientific Theory of Marine Reserves
SAT PM Science & Policy of Marine Reserves
SUN AM Extinction Vulnerability
SUN PM Humans & High Altitude Environments
MON AM Coral Reefs in Crisis

Science, Engineering and Public Policy

- FRI AM** The Comprehensive Test Ban Treaty
FRI PM Arms Control & Proliferation Concerns
SAT AM Standards & Rate of Technology Development
SAT AM Math of Apportionments
SAT PM Math Aspects of Intellectual Property
SUN PM Shaping the Genetic Future of Man
MON AM Government's Role in the Commercialization
MON AM Bench Scientists & Science Policy
MON PM Patenting Genes & Business Methods
TUE AM Implications of Minimal Genomes

Technology Impacts on Society and Engineering

- SAT PM** Simulations, Complexity & Ethics
MON AM Functional Genomics
MON PM Networking Technologies & Research

Science Innovation

- FRI AM** Matter and Antimatter: Not Quite Opposites
FRI PM Accelerating Discovery: Supercomputers
FRI PM Coming Revolutions in Particle Physics
SAT AM Learning and Plasticity in the Brain
SAT PM Signal Transduction
SUN PM Mathematics & Visual Cortex
MON AM Managing the Sea of Data
MON PM Quantum Computing & Communication

Seminars

- THUR PM** Nanotechnology Seminar
FRI AM Nanotechnology Seminar
FRI PM Nanotechnology Seminar
SAT AM 2001 Genome Seminar
SAT PM 2001 Genome Seminar
SUN AM 2001 Genome Seminar
SUN PM 2001 Genome Seminar
SUN PM 2001 Forum for School Science
MON AM 2001 Forum for School Science
MON PM 2001 Forum for School Science

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AREA OF OPPORTUNITY

Focus on Careers: Genetics Research

Recent successes in gene sequencing will have a profound influence on research and development in genetics. Opportunities will open up in areas as diverse as target discovery and clinical testing. **BY PETER GWYNNE**

The successes of recent months in sequencing the genomes of humans and other organisms have changed forever the nature of research in genetics. They have opened up opportunities for life scientists to apply the sequences to the creation of products for the pharmaceutical and other industries. Scientists with skills in bioinformatics top the wish lists of pharmaceutical and biotechnology companies, closely followed by individuals capable of working on target identification and validation.

Scientists qualified in several disciplines can benefit from the new opportunities. Companies are recruiting cell biologists, combinatorial chemists, medicinal chemists and, particularly, life scientists who possess sophisticated skills in computing.

Not every well-qualified life scientist can or should undertake the new tasks open to industry. Recruiters emphasize that applicants should show themselves ready and able to appreciate the differences between industrial and academic research. They must realize that industry focuses on products rather than publications, and that nearly all its research occurs in team situations.

Here, we discuss the type of genetic research undertaken by three pharmaceutical companies and the types of life scientists they seek to help carry out that work.

RIDGEFIELD, Connecticut: According to Hans Reiser, director of biology for Boehringer-Ingelheim Pharmaceuticals, Inc., recent successes in gene sequencing will have an immediate impact on two aspects of drug discovery. First, new targets for drug discovery research are identified through analysis of gene sequences and through comparative expression profiling of cells or tissues. Second, targets are validated through complex in vitro assays (functional genomics) and animal models.

In addition to their impact on drug discovery, genomic and proteomic research play an increasingly important role in preclinical and clinical development. "Pharmacogenomics is the science that analyzes variations in human populations with the ultimate aim of targeting the right drug to each individual to optimize the drug's efficacy. Its corollary is toxicogenomics, which tries to identify populations at risk of developing particular side effects," Reiser explains. "I am convinced that genomic information will be instrumental in defining those patient populations in the future."

Boehringer-Ingelheim Pharmaceuticals has efforts ongoing in all those areas and seeks to recruit a variety of life scientists at all levels of training to work in them. Bioinformaticians are especially difficult to recruit, Reiser finds. "We look for both specialists in bioinformatics and biologists with an interest in computers," he says. "Typically the latter are self-selected. They are graduate students or postdocs with an affinity for computational sciences."

For lab work, Boehringer-Ingelheim Pharmaceuticals aims to attract cellular biologists, molecular biologists and enzymologists with postdoctoral training. The company also has its own postdoc program that provides a source of individuals for staff positions. "We look for people who have meshed particularly well and who really like working in industry," Reiser explains.

What attributes does the company expect its recruits to possess? "Excellent scientific track records, excellent problem-solving ability, good communication skills both written and verbal, and the capability for teamwork," says Reiser. "A lot of the work we do is multidisciplinary. Not everybody is suited to this. Those who prefer to work independently will choose the academic environment. Industry is different."

Hans Reiser Boehringer Ingelheim



■ **Boehringer-Ingelheim Pharmaceuticals, Inc.**

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Metabolic & Cardiovascular Drug Discovery Princeton, NJ

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Physiologist: B.S./M.S. with a min. of 2 years experience in physiology/pharmacology to identify and characterize novel therapeutic agents. Experience with in vitro/in vivo experimental techniques is required, including tissue, isolated organ physiology. **Job Code: PRNR202MB2**

Electrophysiologist: B.S./M.S. with a min. 2 years experience with various cardiac electrophysiological and mechanical recording techniques to identify and characterize novel therapeutic agents. Training in electrophysiologic methods and procedures is essential. **Job Code: PRNR202MB3**

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Neuroscience Drug Discovery Wallingford, CT

Cellular Electrophysiologist: B.S./M.S. with 2 or more years experience with voltage-clamp techniques to participate in the biophysical and pharmacological characterization of native and recombinant ion channels. Responsibilities will include measurement of ionic currents using whole cell or single channel voltage clamp techniques and investigation of drug blockade or activation of various channel types. **Job Code: PRMA202NL**

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PRINCETON, New Jersey: "The three really hot areas in genetic research are bioinformatics, functional genomics, and quantitative genetics including population and statistical genetics," says Nic Dracopoli, executive director of pharmacogenomics at Bristol-Myers Squibb's Pharmaceutical Research Institute. "All those areas are in huge demand."

In Dracopoli's view life scientists with demonstrated skill in functional genomics have become even more difficult to track down than experts in bioinformatics. "Informatics has been a bottleneck for a while in terms of access to people, but a relatively small number of people can do a lot in that field," he explains. "The real bottleneck is the validation of sequence data. You have massive numbers of targets. You have to figure out what proteins they interact with, where they are expressed, and where the functional parts of the molecule are located. The work is not highly automated; it depends on the scientist at the bench."

Overall, Dracopoli continues, "The most valuable scientists now are those who can cross the interface between bench biology, biochemistry and bioinformatics at a more sophisticated level than just running BLAST. People who can communicate across that barrier are in high demand. They're coming through the pipeline of academic training, but the need for them will not be met in the foreseeable future."

The Pharmaceutical Research Institute generally looks for life scientists with specialist skills. "But the skills are relatively transportable," explains Dracopoli. "Somebody who has been working on a plant genome can be moved into a human genome project and vice versa." The key point is comfort with the sophisticated research of the postgenomic era. "We want people who have moved beyond studying one gene at a time," he says.

In addition to scientific excellence, "We really work hard to identify and cultivate leadership excellence in recruits," adds Michelle Graham, director of leadership development and strategic staffing at the Institute. "Leaders should be able to create and articulate a vision, to mobilize the organization, and to set an example." The organization gives scientists equal opportunities to follow management and scientific tracks according to their individual wishes and abilities.



Another sought-after asset is the willingness to work in multidisciplinary groups. "Pharmaceuticals is very much team-oriented and nobody works individually," says Dracopoli. "You also have to find a good fit in pharmaceutical and biotechnology companies, doing the sort of science that really interests you."

Michelle Graham Bristol-Myers Squibb

SALT LAKE CITY, Utah: For Myriad Genetics, Inc., an emerging biopharmaceutical company that applies genomic and proteomic technologies to develop therapeutic and diagnostic products, the recent successes in sequencing the genomes of humans and other creatures means a swing from mechanistic methods to more biological work. "Once we have the sequences we need to understand them and develop drugs from them," explains Bill Hockett, Myriad's director of corporate communications. "For that we'll need to turn from the mechanical routines of gene discovery and sequencing to biochemistry and medicinal chemistry."

That change will inevitably influence the type of scientist sought by Myriad and similar firms. "Companies used to need technologists who could manipulate genes," says Hockett. "Now medicinal chemists and combinatorial chemists will be highly valuable and protein biochemistry will be a hot area. We wish we had a few more in those disciplines."

Myriad is searching for scientists of that type to staff its newly established medicinal chemistry department. "We're looking to add two people there in the very near future and some combinatorial chemists later," Hockett says. "We're looking for several protein

Nic Dracopoli Bristol-Myers Squibb



Bill Hockett Myriad Genetics, Inc.

biochemists and people who understand animal and human physiology. And we'll still need technologists to do DNA sequencing."

The company recruits at the B.S. and M.S. level, particularly for its sequencing work. However the postsequencing climate mandates a large proportion of Ph.D.-level scientists. "In the past we could get by with one Ph.D. to about 12 Master's and Bachelor's level scientists," says Hockett. "Now, as we move toward a more specialized degree of knowledge about the systems, we need a ratio of more like 1:3."

Myriad looks for scientists with a feel for industrial imperatives. "A few years ago, when we were very small, we ran almost as an academic department," Hockett recalls. "But now we're really looking to create products. So we need people who can understand the motivations of a commercial entity. We like our scientists to be able to publish, but we don't do research for research's sake. We need to see the end goal. And our recruits have to be more willing to be motivated by such factors as financial rewards and recognition among a nonacademic peer group." ■■■■



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Myriad Genetics, Inc. is an emerging biopharmaceutical company focused on the development of therapeutic and diagnostic products that are based on the use of genomic and proteomic technologies. The Company has established two wholly owned subsidiaries, that are developing therapeutic compounds, proprietary molecular diagnostic services and has introduced products in predictive and personalized medicine. The Company has established strategic alliances with Bayer, Eli Lilly, Hitachi, Novartis, Pharmacia, Roche, Schering AG and Schering-Plough.

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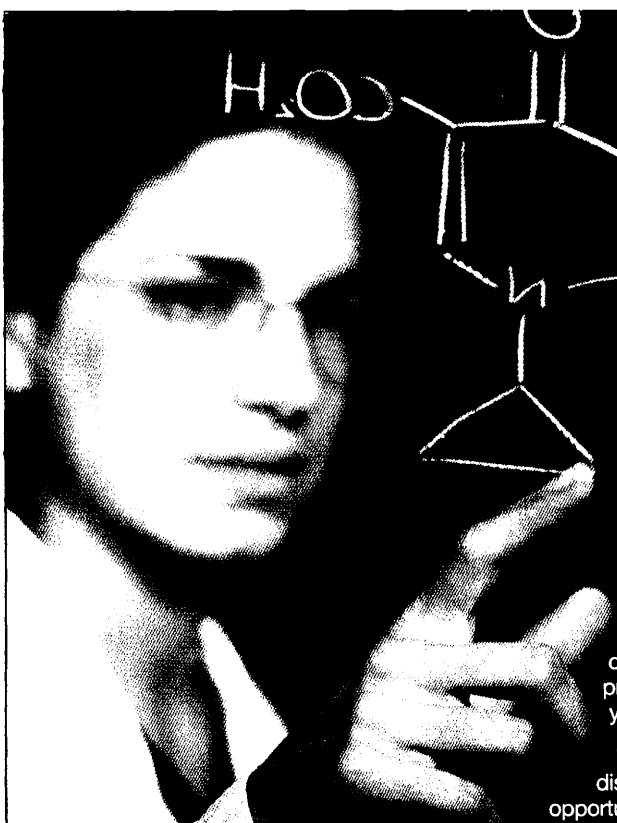
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Job Code SW0938.

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The Weill Graduate School of Medical Sciences of Cornell University is committed to the successful recruitment and training of qualified women and members of under-represented minority groups. Cornell University is an Equal Opportunity/Affirmative Action Employer.

To receive additional information and an application kit, call, write or visit our website.

Weill Graduate School of Medical Sciences of Cornell University
445 East 69th Street, New York, NY 10021

TEL: 212-746-6565; FAX: 212-746-8906

E-MAIL: gsms@med.cornell.edu

WEBSITE: <http://www.med.cornell.edu/gradschool>



MAYO CLINIC VIRAL IMMUNOLOGY POSTDOCTORAL FELLOWSHIP POSITION

A postdoctoral position is available starting January 2001 in the Viral Immunology Laboratory of Dr. Carlos V. Paya at Mayo Clinic Rochester to study the interplay between the transcription factor NF- κ B and HIV and their replication. Candidates require expertise in cell biology, immunology, and/or virology. Send a curriculum vitae, description of research experience and the name and address of three references to the attention of:

Teresa Hoff
Mayo Clinic
Guggenheim 501
200 First Street SW
Rochester, MN, 55905
E-mail: thoff@mayo.edu

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

Share the Vision

It's a vision of hope and of bettering the world. At each of our facilities, we're working to make this vision a reality. And, as part of American Home Products, one of the world's leading research-based companies, we deliver. If you're interested in a career in using your pharmaceutical and scientific knowledge to help us help the world, join us in our PEARL RIVER, NY facility.

Research Scientist II, Biology

In this highly visible role, you'll provide technical support for the preparation and evaluation of live attenuated RSV and PIV vaccine candidates. Under research and GLP/GMP conditions, your responsibilities will extend to performing tissue-culture based virology procedures to biologically clone virus isolates and prepare pre-clinical vaccine pools, titer and characterize vaccine preparations and clinical trial specimens. Other challenges will include evaluating attenuation related virus phenotypes and developing assays.

A BS with 10 years' relevant experience qualifies you, as does an MS with 8 years' experience. Training in sterile technique, tissue culture, and handling of infectious agents is vital; virology background preferred. Exceptional communication and PC skills are also requisites.

Wyeth-Ayerst offers competitive compensation and benefits programs including stock options, child-care subsidies, flex-time, business casual Fridays, educational assistance and professional development programs. Please forward your resume with salary requirements to: **Attn: Human Resources KN-WLL10247, 401 North Middletown Road, Pearl River, NY 10965. Fax: (914) 732-5375.**

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Opportunity Employer.
M/F/D/V.

For more information, visit
us at: www.wyethjobs.com



POSTDOCTORAL BIOINFORMATICS

One bioinformatics postdoctoral position is available to analyze genomic sequence. This position involves analysis and annotation of genomic sequence from several model genomes. The ideal candidate possesses a Ph.D. in molecular biology or biochemistry with 0-3 years of post-graduate experience and possesses the skills to use GCG as well as the outputs from blast searches and gene finding algorithms. A working knowledge of UNIX is necessary. The sequence analysis will be used to describe the features (genes, transposon, repeat elements, etc) of the sequence in comprehensive reports submitted to the Genbank and WWW.

For this position we will consider outstanding motivated candidates with limited specific previous training.

Please send CV and 3 letters of recommendation to:
Human Resources Department/BPDMC,

Cold Spring Harbor Laboratory

1 Bungtown Road,
Cold Spring Harbor, NY 11724
or e-mail: jobline@cshl.org



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Howard Hughes Medical Institute

“My HHMI fellowship was the impetus for an exciting, meaningful avenue of research.”

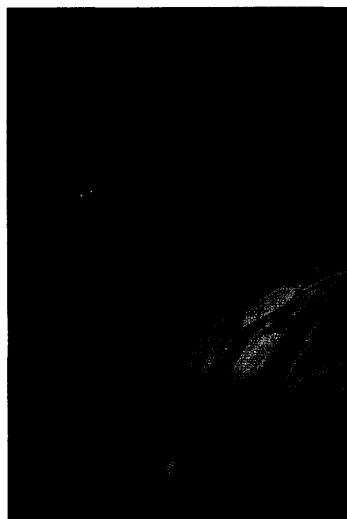


Photo by Paul Fethers

Sharon Plon
Former HHMI
Physician
Postdoctoral
Fellow at the Fred
Hutchinson Cancer
Research Center

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 8, 2000.)

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: December 6, 2000.)

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, 2001.)

Postdoctoral Research Fellowships for Physicians Three years of support for training in fundamental research subsequent to at least two years of post-graduate clinical training. (Application deadline: December 13, 2000.)

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and underrepresented minorities to apply.

Dr. Plon is an Assistant Professor in the Department of Pediatrics at the Baylor College of Medicine and Director of the Baylor Cancer Genetics Clinics at Texas Children's Hospital and Methodist Hospital. Her research focuses on the existence of human genes that predispose families to various cancers.



For more information: www.hhmi.org/fellowships

Discover Merck.

Employment opportunities in NJ

Merck Research Laboratories is a leading research-driven pharmaceutical products and services company. Recently ranked by *Fortune* among "America's Most Admired Companies," we continually live up to our reputation with a truly unique work environment that fosters diversity and growth. We are currently seeking a Senior Research Biologist at our **Rahway, NJ** location.

Senior Research Biologist

An electrophysiologist is needed who will be part of a research team studying ion channels as targets for human disease and antiparasitic agents. In this position, you will be responsible for conducting electrophysiological studies on target ion channels as part of a drug discovery effort to determine viable lead candidates. Drug targets at present include voltage-gated and ligand-gated ion channels. Studies will be focused on characterizing medicinal chemistry leads in key projects and studying new target channels. The candidate should have a Ph.D. in biology, biophysics or chemistry and experience in studying the electrophysiology of ion channels. Experience in conducting patch clamp studies in native tissues and/or in surrogate expression systems is a prerequisite. A strong publication record in peer reviewed journals and postdoctoral experience are also required. The candidate should be able to work independently and interact in a team setting.

We offer an excellent salary and comprehensive benefits program, including tuition reimbursement and one of the best 401(k) plans in the nation, as well as opportunities for personal growth. Please submit your resume and a cover letter indicating salary requirements to: **Merck Positions, PAF Code: XHXMRSMLL81500, P.O. Box 52164, Los Angeles, CA 90009-2164. E-mail: merck@resume.isearch.com Fax: (310) 337-3393.** Only candidates considered for interviews will receive responses. No phone or agency calls please. EOE, m/f/d/v.



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MAYO CLINIC POSTDOCTORAL FELLOWSHIPS

Postdoctoral fellowships in gastrointestinal research are available for two or more years beginning in 2000 and 2001. Faculty employs multidisciplinary approach using biochemical, cell/molecular biological, immunological, physiological and electrophysiological techniques. Applicant may focus on clinical and/or basic studies. Applicants should have MD and/or Ph.D. degree and must be a US citizen or have permanent visa status. Please submit curriculum vitae and three letters of reference to:

Gregory J. Gores, M.D., F.A.C.P.
Professor of Medicine
Associate Professor of Physiology &
Biophysics
NIH Training Grant
Mayo Clinic
200 First Street SW
Rochester, MN 55905

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

FACULTY POSITION MOLECULAR CARDIOVASCULAR BIOLOGY

The Division of Molecular Cardiovascular Biology housed within the Department of Pediatrics, Children's Hospital Medical Center is seeking applications for one **tenure track** position to be filled at the **Assistant and/or Associate Professor** levels. The successful candidate will have the Ph.D. or M.D.-Ph.D. degree and at least two years of post-doctoral research experience. Holders of the M.D. degree will have the opportunity to assume some clinical duties within the Department of Pediatrics, Division of Cardiology, but will be expected to devote at least 80% of their time to building a research program. Division faculty are encouraged to join the multidisciplinary graduate program in Molecular and Developmental Biology. They also will have the opportunity to participate in graduate student training and the teaching programs of the University of Cincinnati College of Medicine, although teaching duties are normally minimal with less than five lectures/year. Programmatic needs of the Division dictate that the applicant have a demonstrated track record in either molecular aspects of cardiogenesis, normal or abnormal heart development/function, genetic basis of cardiovascular disease, signaling, molecular approaches to cardiac physiology, gene regulation, or the application of global genomic approaches to the cardiovascular system. The successful applicant will be joining a highly productive and interactive core faculty. A focus on mechanistic approaches is expected. Ample laboratory space in a new building and a generous start-up package will be provided. Applications should include a comprehensive curriculum vitae and the names of three references. A summary of past research and future plans for an independent research program should be included. Applications should be sent (or emailed: Jeff. Robbins@chmcc.org) to: **Jeffrey Robbins, Children's Hospital Medical Center, Children's Hospital Research Foundation, Division of Molecular Cardiovascular Biology, TCHRF, Room 3057, 3333 Burnet Avenue, Cincinnati, OH 45229-3039.**

In consideration of our children the Medical Center is committed to a smoke-free workplace. Children's Hospital Medical Center conducts pre-employment drug screening as part of a comprehensive program to maintain a drug-free workplace. Equal Opportunity Employer M/F. Minorities are encouraged to apply. (http://www.cincinnatichildrens.org/chrf/research_programs/divisions/32)

DARTMOUTH COLLEGE

Dartmouth College invites nominations and applications for the position of Director of the Institute of Security Technology Studies.

The Institute for Security Technology Studies (ISTS) at Dartmouth College in Hanover, New Hampshire serves as a national center for counter-terrorism technology research, development, and assessment. Funded by the U.S. Justice Department's National Institute of Justice, Office of Science and Technology (OST), it also provides technical support to OST and the National Domestic Preparedness Office. The core research program studies threats to electronic information infrastructure systems and technologies of the United States; seeks appropriate and effective technological preparedness, response, and recovery actions; and addresses related training and information needs.

The Director, who will lead the development and implementation of the Institute's programs and policies, reports to the Provost's Office and works collaboratively with faculty and administrators.

Qualified candidates will have a strong background in technology or its public policy implications, including national security, law enforcement, and e-commerce. Candidates must have the ability to work effectively with the academic community, government, and the private sector. An understanding and appreciation of the value of research conducted in a university setting and the demands and collegial style of work in a research environment are important.

The position requires a doctorate in an appropriate field of engineering, one of the sciences, or in some other technical area, or a JD in combination with other advanced degrees or the equivalent. Candidates must have program leadership experience at a senior level. Additional information on the position and the Institute can be found at <http://www.ists.dartmouth.edu/>.

Applications from and nominations of women and members of minority groups are encouraged. All applications, nominations, and inquiries should be directed to:

Deputy Provost Jamshed Bharucha, Chair
ISTS Director Search
Dartmouth College
P.O. Box 683
Hanover, NH 03755

Review of applications will begin immediately and continue until the position is filled.

*Dartmouth College is an
Equal Opportunity,
Affirmative Action Employer*



Defining Gene Function for Drug Discovery

Finding the best targets for drug discovery among some 100,000 genes contained in the human genome is a task of such complexity and scale that it will require the combined efforts of leading research scientists throughout the world. Lexicon Genetics Incorporated, based in The Woodlands, is currently seeking the following professionals:

Scientists

Candidates must have a D.V.M. or a Ph.D. in Pathology and three years of post-doctoral or clinical experience in hematology, toxicology, histology and/or radiology.

Scientists - Full Length Cloning

A position is available immediately for a talented scientist to bolster our efforts to define new drug targets and therapeutics. Requirements include a Ph.D. in Molecular Biology or related field, three years post-doctoral experience, and proven expertise in the skills necessary to establish full length cDNA sequences including cDNA library manipulation, PCR, RACE, and working knowledge of sequencing software. Excellent communication skills, a team orientation, and the ability to manage multiple projects are required and supervisory experience and familiarity with bioinformatic tools used to mine large data sets are pluses.

Scientist - Database Curator

Responsibilities will include data acquisition from disparate sources as well as evaluation, analysis, and annotation of such data as part of database integration. A broad knowledge of modern medical biology, molecular biology, genetics, genomics, and bioinformatic database mining techniques. Excellent communication skills will be necessary to effectively interact with multiple groups to optimize interface design and database content. Strong writing skills, a Life Science Ph.D. or MD degree and three years of post-doctoral experience, and a history of achievement demonstrated by a solid publication record is required.

Associate Scientist/Senior Research Associate

We are seeking Senior Research Associates to fill key openings in our Phenotypic Analysis/DNA Repair and Homologous Recombination laboratories. Qualified candidates will have minimum of a Bachelor's degree in a life science field plus five years of experience in a molecular biology lab or a Master's degree and two years of experience. Candidates must possess several of the following technical skills: DNA manipulation, RT-PCR, PCR, Southern, Northern, Western, phenotypic analysis, gel electrophoresis or mouse production.

Lexicon Genetics employees enjoy a beautiful working environment as well as a full range of cultural, recreational and residential opportunities in The Woodlands, Texas located 30 miles north of Houston.

Please send your CV, cover letter indicating the position that you are interested in and two letters of reference to:

Human Resources
Lexicon Genetics Incorporated
4000 Research Forest Drive
The Woodlands, TX 77381-4287
Fax (281) 419-4932

Email: bbaehl@lexgen.com
For more information on our company,
please visit our website at:
www.lexicon-genetics.com E.O.E.



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Employment opportunities in NJ

Merck Research Laboratories is a leading research-driven pharmaceutical products and services company. Recently ranked by *Fortune* among "America's Most Admired Companies," we continually live up to our reputation with a truly unique work environment that fosters diversity and growth. We are currently seeking Senior Level Scientists for our Department of Endocrinology at our Rahway, NJ location.

SENIOR LEVEL SCIENTISTS

Career opportunities for senior level scientists with backgrounds in biochemistry, cell biology and molecular biology are available in the Department of Endocrinology at the Merck Research Laboratories.

The ideal candidates should possess a Ph.D. degree and three years of postdoctoral experience. We are looking for highly motivated, creative people with leadership potential and a strong publication record. Ability to work in a cross-functional team environment is essential.

Candidates will join a multidisciplinary group of scientists studying estrogen receptors and developing selective estrogen receptor modulators for a variety of therapeutic targets. Approaches may include, but are not necessarily limited to, the use of in situ hybridization and immunocytochemistry, DNA array and proteomic analysis, target gene expression in wild type and estrogen receptor knockout mice, laser capture microdissection of cells expressing estrogen receptors, and development of natural transcription based assays in cells that reflect therapeutic targets of interest.

We offer an excellent salary and comprehensive benefits program, including tuition reimbursement and one of the best 401(k) plans in the nation, as well as opportunities for personal growth. Please submit your resume and a cover letter indicating salary requirements to: **Merck Positions, PAF Code: XHXMRSVCV81500, P.O. Box 92164, Los Angeles, CA 90009-2164. E-mail: merck@resume.isearch.com Fax: (310) 337-3393.** Only candidates considered for interviews will receive responses. No phone or agency calls please. EOE, m/f/d/v.



Visit our website at www.merck.com

ASSISTANT PROFESSOR OF PLANT DEVELOPMENTAL BIOLOGY

As part of a University-wide genomics initiative, Cornell University is soliciting applications from outstanding candidates whose research focuses on the genetic analysis of developmental processes in plants. The appointee will join an interactive group of faculty who utilize genomic approaches and the latest techniques in genetics, cell and evolutionary biology, biochemistry, and analytical chemistry. Contribution to teaching in the area of plant developmental biology is expected.

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

**Plant Search Committee
228 Plant Science Building
Cornell University
Ithaca, NY 14853-1901**

**Attn: Sandra Brown
(sgb2@cornell.edu)**

Phone 607-255-8507, Fax 607-255-5407

Position open until filled; review of applications to commence on October 31, 2000.

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Lilly

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Eli Lilly and Company is seeking innovative scientists to join our multidisciplinary Bioinformatics group having particular focus in sequence analysis, mathematical/statistical modeling, gene profiling and pharmacogenomics.

BIOINFORMATICS SCIENTIST

The successful applicant will collaborate with scientists in the DNA Technology, Pharmacogenomics and Discovery Research groups to provide DNA and protein sequence data analysis. The applicant will also develop improved computational tools for analysis of molecular biology and genomics data. Responsibilities will include advising and training scientists on preferred methods for computerized data manipulation and analysis.

The individual will also develop improved methods for DNA sequence and molecular biology data access and analysis on a variety of platforms that include PC, and UNIX platforms. This includes evaluation, development and implementation of computerized methods for large-volume, centralized data storage, and provides rapid multi-user access. The successful candidate will also develop and maintain computational algorithms, software, and develop graphical interfaces to provide easy access for scientists in a variety of areas.

Qualified candidates will possess the following: a demonstrated ability to learn, use, and apply a variety of computer applications; computer programming expertise (C, C++, Java, PERL); ability to work both independently and within a team environment; demonstrated capacity to organize detailed processes; and a degree in computer sciences, biology, bioinformatics (BS/BA minimum) or equivalent experience.

Refer to Source Code ADSCMRT20 on all correspondence.

We offer competitive salaries, outstanding benefits, the potential for advancement and challenging opportunities employees look for today. If you are a highly motivated scientist, who is excited by the challenge of tackling complex research problems, we would like to invite you to submit your cover letter and resume to: **Santosh K. Mishra Ph.D., Eli Lilly and Company, Lilly Research Laboratories, DC 0444, Indianapolis, IN 46285. Email: MISHRASK@LILLY.COM.** We are an equal opportunity employer that values the strength diversity brings to the workplace.



**FRED
HUTCHINSON
CANCER
RESEARCH
CENTER**

FACULTY POSITION at the Fred Hutchinson Cancer Research Center and the University of Washington



The Clinical Research Division of the Fred Hutchinson Cancer Research Center is recruiting an established laboratory-based scientist with interests that could complement and expand a growing clinical program focused on translational research that is relevant to the prevention, diagnosis or treatment of breast, gastrointestinal, ovarian, prostatic, neurologic or other solid tumor malignancies in humans.

The Fred Hutchinson Cancer Research Center has major resources committed to genomics, bioinformatics, and tissue acquisition, with outstanding and accessible core facilities needed to support solid tumor research. Exceptional opportunities exist at the Center for collaborations with strong programs in population-based solid tumor research in the Public Health Sciences Division. The Clinical Research Division offers abundant opportunities for scientific interactions with investigators in the Human Biology and Basic Sciences Divisions at the Cancer Center, the Departments of Medicine, Pediatrics, Surgery and Pathology at the University of Washington School of Medicine, and other institutions in Seattle. The candidate selected for this position will have opportunities to influence future development of the program through outstanding scientific accomplishment, collegiality and leadership. Significant Center resources have been secured to support this new position.

It is preferred that candidates have an MD degree, with experience and qualifications for appointment as Associate or Full Member, equivalent to Associate or Full Professor. The primary appointment will be in the Clinical Research Division, Fred Hutchinson Cancer Research Center. If desired, a joint appointment may be made to other Divisions at the Center and to the full-time faculty at the University of Washington.

Candidates should send curriculum vitae and a concise statement of research plans and career goals, preferably by e-mail as a PC-compatible attachment to stsearch@fhcrc.org. Materials may also be sent to the **Solid Tumor Search Committee, Fred Hutchinson Cancer Research Center, 1100 Fairview Avenue North D5-310, P.O. Box 19024, Seattle, WA 98109-1024.** Application review will begin on November 1, 2000 and will continue until the position is filled.

The Fred Hutchinson Cancer Research Center and the University of Washington are Equal Opportunity Employers committed to workforce diversity. Applications from women and minority groups are strongly encouraged.



CuraGen's rapid growth has created new career opportunities. We currently have openings for individuals with backgrounds in molecular biology, biochemistry, biology, engineering, bioinformatics, medicine and other related fields. Successful CuraGen employees are exceptionally organized, have an entrepreneurial spirit, a passion for their work and thrive in a challenging, team-oriented environment. We are currently seeking highly driven individuals.

Pathways to exciting careers in genomics.

CuraGen is dedicated to gene discovery, functional analysis of novel proteins and the development of new genomic-based therapeutics. We are looking for talented, energetic, and exceptionally organized scientists (PhD/MD/DVM/DSc) to join us. Currently, we are expanding our Internal Discovery and Drug Development Programs and have open positions at a number of levels in each of the following areas:

- ***Metabolic Diseases***
- ***Cancer***
- ***Genetics***
- ***Inflammation/Autoimmunity***
- ***CNS Disorders***
- ***Therapeutic Proteins***
 - ***cDNA Analysis***
 - ***Transcriptome Analysis***
 - ***Genomic Analysis***

CuraGen has two locations on Connecticut's shoreline, in New Haven and Branford. Our close proximity to Yale University provides a stimulating intellectual community. In addition, there are many cultural events and activities in the area as well as in nearby NYC and Boston.

Please send cover letter, resume/CV and 3 letters of recommendation and/or references. EOE.

Visit us ! Talk with us ! e-mail us ! Come join us !

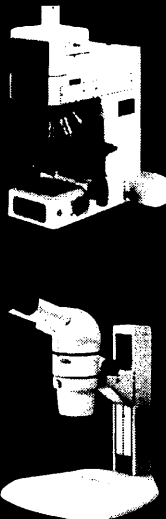
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Selected candidate will act as liaison for technical information and feedback between the end user/sales network and Nikon factory engineers on all matters pertaining to our BioScience technical product line. Applicants must have a PhD in BioSciences, BioEngineering or Physics with a specialty in optics, or equivalent experience. Knowledge of advanced techniques including fluorescence applications required. Excellent communications skills in English a must, along with good writing and public speaking abilities. Excellent benefits and compensation provided.

Mail or fax your resume, which MUST include salary requirements, to: HR Department, Nikon, 1300 Walt Whitman Road, Melville, NY 11747. Fax: 631-547-4025. www.nikonusa.com. Equal Opportunity Employer



DRI invites applications and nominations for the position of Executive Director of our Division of Atmospheric Sciences (DAS)

The Desert Research Institute (DRI), an environmental research institution of the University and Community College System of Nevada (UCCSN), is seeking an Executive Director for its Division of Atmospheric Sciences, located at its Northern Nevada Science Center in Reno. Reporting to the President, incumbent will promote the needs of the Division, serve as a faculty mentor and collaborator; facilitate cooperation in teaching and research with the University of Nevada-Reno; and foster relationships with current and potential sponsors to further the strategic goals of DAS and the Institute.

For a detailed position description, application procedures, and more about DRI, visit us at www.dri.edu/AboutDRI.html (then link to Employment Positions) DRI is an AA/EEO employer that hires only U.S. citizens and those authorized to work in the U.S.



ENDOWED CHAIRS THE LINDA AND JACK GILL CENTER FOR INSTRUMENTATION AND MEASUREMENT SCIENCE INDIANA UNIVERSITY

Indiana University is seeking to fill four newly endowed chairs at the tenured full professor level in the Linda and Jack Gill Center for Instrumentation and Measurement Science. The Center was recently established to provide Indiana University leadership in the development of new instrumentation that will profoundly impact 21st century science. The fields of the positions are open, but applicants should have established an international reputation in the fields of instrumentation or measurement science, or its underlying technologies, as they relate to such areas as Astronomy, Bioscience, Chemistry, Cognitive Science, Computer Science and Engineering, Earth Science, Genomics, Informatics, Medical Science, Neuroscience, Optometry, Physics, and Proteomics. The successful candidates will have tenure and teaching responsibilities in one or more programs or departments and will be engaged in part in the development of a new graduate program in Instrumentation Science. It is anticipated that the Chairholders will form a synergistic group, so early appointments will have a strong influence on later developments. It is planned that the chairs will be filled at the rate of one per year, but a more rapid pace is possible. The search will continue until all positions are filled.

Applications should include a *curriculum vitae*, a summary of future research plans and requirements, and a list of individuals who can serve as referees. Review of applications will begin October 15, 2000, and will continue until the positions are filled. Send applications to:

Professor Gary M. Hieftje, Director
Linda and Jack Gill Center
Indiana University
Bloomington, IN 47405
FAX: (812) 855-0958
Email: gillctr@indiana.edu
<http://www.gillcenter.indiana.edu>

Indiana University is an Affirmative Action/Equal Employment Opportunity Employer and especially encourages applications from women and members of minority groups.



Biotechnology

LI-COR, inc., is a growing company that designs and manufactures scientific instruments for biological and environmental sciences. We currently have two biotechnology positions open for persons with a high degree of initiative, who are self-starters, motivated, enjoy working in a team environment, and able to manage multiple projects simultaneously. LI-COR places high value on integrity, honesty and patience.

Applications Scientist

Will be a part of LI-COR's Molecular Biology Group that develops products for the genomics/proteomics markets. Successful applicant will focus company efforts to develop products based on LI-COR's proprietary scanning instrument platforms and infrared dye chemistries for the analysis of nucleic acid structure, gene expression and protein-protein interactions, and also steer the company into other new markets in the genomics/proteomics fields. In addition to technical and scientific expertise, the Application Scientist will identify customer requirements, analyze competitors, collaborate with external scientists, write technical publications and participate in sales process through technical presentations, seminars and workshops.

QUALIFICATIONS: Ph.D. in molecular biology, cell biology, microbiology, biochemistry or related discipline required. 2-3 yrs. of postdoctoral experience preferred. A deep understanding and practical experience in the design/use of microarray technology and software for analysis of nucleic acid structure, gene expression or protein interactions a must. Hands-on experience in DNA sequencing and DNA analysis software also required. Communication skills and presentation skills critical for this position.

Scientist, Advanced Research & Development

Will perform directed evolution of DNA polymerases. Duties include kinetic characterization of polymerases, gene cloning and mutagenesis, over-expression in bacteria, protein purification and implementation of a high-throughput screening process. Will be required to present new protocols, ideas and technologies in order to effectively implement strategies in the lab that require state-of-the-art science and technology. QUALIFICATIONS: Ph.D. in chemistry, biochemistry, molecular biology or related discipline required. Experience in enzyme kinetics, cloning, over-expression and protein purification required. Specific experience in the mutagenesis and characterization of nucleic acid polymerases desired. Software experience: high familiarity with one or more, OS/2, Windows, Macintosh, UNIX.

Please submit a letter of introduction along with your Curriculum Vitae to:
LI-COR, Inc.

ATT: Dan Hile, Director of Human Resources
4421 Superior Street, PO Box 4425
Lincoln, NE 68504-1395
or E-mail dhile@licor.com

PHARMACIA

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AN AMAZING OPPORTUNITY.

Discovering brilliant new cures is easier to achieve when your company is rapidly growing in sales, stability and resources. That's what we're experiencing with the merger of Monsanto and Pharmacia & Upjohn, where 60,000 professionals have come together to form a \$17 billion first-tier pharma organization: **Pharmacia Corporation**. By investing more than \$2 billion annually in pharmaceutical R&D, we are developing one of the strongest patent positions in the industry. A challenging opportunity now exists in **suburban Chicago** for an individual to join us as:

RESEARCH ANALYTICAL CHEMIST

Job Code: 00-1850

You will operate within our multi-disciplinary bioanalytical function providing state-of-the-art support for all phases of drug development. You will be responsible for the methods development and validation of high-throughput assays for analysis of drug-candidate molecules employing liquid chromatography with tandem mass spectrometry detection. You will participate in coordinating analysis, analyzing and reporting results, and will interact with a wide variety of project work teams. We require a MS in Analytical Chemistry with a minimum of 2 years related experience in HPLC method development and application. The individual must possess a strong working knowledge of analytical instrumentation, mass spectrometry, HPLC, CE and quantification systems. They must have the proven ability to independently design experiments and creatively solve problems. Experience in the analysis of biological samples is highly desirable. The individual we seek has the communication and interpersonal skills to work with a team of experienced bioanalytical researchers on all levels, both internal and external.

We offer a competitive salary and benefits package including tuition reimbursement and 401(k). **For fastest consideration, please submit your resume in scannable format and Ad Code 00-1850 noted on your cover letter, to: monsanto@aonhros.com or mail to: Monsanto, Ad Code 00-1850, PO Box 1262, Findlay, OH 45840. EEO/AA Employer M/F/D/V. For more information and other vacancies, please visit our website at www.pharmacia.com and click on Monsanto.**

PHARMACIA

Aventis Pharmaceuticals



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Hoechst Marion Roussel and Rhone Poulenc Rorer have adopted the name Aventis Pharmaceuticals to create:

**A new world-class
pharmaceutical
company.**

Aventis Pharmaceuticals is dedicated to extending and enhancing human life through the discovery, development, manufacture and sale of pharmaceutical products. Aventis Pharmaceuticals offers the power of global forces in pharmaceutical products and services, an excellent financial standing and a vision for the future that is unmatched in the industry.

Become part of the most exciting growth company in the pharmaceutical industry. The formation of Aventis Pharmaceuticals will result in significant expansion at the North American Strategic Research Center in Bridgewater, New Jersey.

If you possess the skills, attitude, and desire to become part of the newest, and most exciting drug discovery team in "Pharm Country" visit our website at:

www.aventis.com

(To explore career opportunities, choose Aventis Pharma US from the Explore Aventis menu and then click on the careers button)

Ph.D. Molecular Biologist

Successful candidate will perform gene expression profiling research using high density microarray technologies. The position involves implementing and improving state-of-the-art technologies to be applied to the field of toxicology.

Position requires abilities to interact with multidisciplinary teams including toxicology and bioinformatic researchers. Prior experience with gene expression technologies and/or genomics is highly desirable. Candidates for this position should have a Ph.D. in molecular biology or related field with at least 1-2 years of postdoctoral research experience. Expertise in genomics and mammalian genetics is highly desirable.

Aventis Pharmaceuticals is proud to be an equal opportunity employer committed to a diverse workforce.

INNOVATION

Paradigm Genetics is industrializing the process of gene function determination for four major sectors of the global economy: nutrition, crop protection, industrial products, and human health. As a global leader in the industrialization of gene function discovery, we are creating unprecedented opportunities in the biological sciences. We have created an integrated, rapid, industrial scale laboratory through which we can discover genes, modify genes, measure the consequences of the modifications, and reliably determine the function of those genes. If innovation is in your genes, contact Paradigm today. Your contributions will have an immediate impact on the company, the industry, and your career.



www.paragen.com

It's In our Genes.

HTS ASSAY DEVELOPMENT - PROJECT LEADER AND ASSOCIATES

Seeking several highly qualified candidates to join our Assay Design/Development Group. This group is responsible for all aspects of HTS design and development from gene cloning through validation and installation (screening excluded). Technologies and formats include, enzyme, receptor binding, reporter gene, phage display, and immunological. Industrial experience essential. Experience with various expression systems, purification techniques, enzyme kinetics, immunochemistry, and robotics is preferable. Project Leader position requires a Ph.D. and 5+ years of industrial experience or MS/BS with industrial experience; project management and supervisory experience; and a working knowledge of the design and delivery of HTS assays. Associates need MS/BS with 5+ years of industrial experience. Job Code: SCIENCEMAG 160

SR. ASSOCIATE SCIENTIST - BIOCHEMICAL PROFILING DATA ANALYSIS

Responsible for the analysis of raw mass spectrometry data and subsequent transfer of reduced data to the FunctionFinder bioinformatics system. Interactions will involve laboratory personnel, informatics and bioinformatics system. Requires excellent skills in LIMs, instrumentation specific software, data processing software, data archive, and GUI data mining programs. Experience in the processing and interpretation of mass spectrometry data is required. Specific requirements: 5-7 years of laboratory experience in Mass Spectrometry (LC/MS, GC/MS) operation and data interpretation; data analysis experience involving combinatorial chemistry and natural products compounds; and experience in data mining and biostatistical evaluation of mass spectrometry data LIMs operation and management. Job Code: SCIENCEMAG 142

It begins here: As a key team member, you'll enjoy a competitive salary and great benefits package with stock options, and more. Please send resume, referencing position title, Job Code, and salary history, to: **E-mail: resumes@paragen.com or apply on-line at www.paragen.com.** No phone calls please. Principals only. EOE



FACULTY OPENINGS TUFTS UNIVERSITY SCHOOL OF MEDICINE

The Department of Anatomy and Cellular Biology at Tufts University School of Medicine is seeking candidates for multiple **FACULTY POSITIONS** at all ranks. The Department is undergoing significant expansion during the next few years under the leadership of a new Chair. Applications are invited in the general area of cellular and developmental biology. In particular, the Department is looking to complement existing strengths in early development, cell differentiation, and developmental neurobiology by the recruitment of individuals using genetic models to assess vertebrate or invertebrate development as an early phase in a major University-wide initiative in Genetics. Start-up funds, core facilities, and space are competitive and include laboratories in the Jaharis Building, a new research facility that is under construction. Teaching will be in Professional or Graduate School courses, and the load will be modest. Please send a curriculum vitae, representative reprints, a brief statement of research plans, and the names, addresses, and telephone numbers of at least three referees to: **Dr. David Albertini, Chair of the Search Committee, Department of Anatomy and Cellular Biology, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111.**

Equal Opportunity/Affirmative Action Employer.

DESIGN, DISCOVERY, AND DEVELOPMENT OF THERAPEUTIC AGENTS TENURE-TRACK FACULTY POSITIONS

The Purdue University Department of Medicinal Chemistry and Molecular Pharmacology invites outstanding scientists to apply for faculty positions at any level. We seek scientists with research interests at the chemistry/biology interface involved in the creation or identification of new chemical entities that may lead to treatments for human diseases. Relevant approaches would include but are not limited to: *bioorganic and natural products chemistry, chemical design and synthesis, combinatorial biochemistry, and combinatorial chemistry.* A successful candidate is expected to establish or maintain a strong research program with extramural funding. Commitment to excellence in teaching at the undergraduate and graduate levels will be required. The Department offers a vigorous and growing research environment with first-rate analytical instrumentation; numerous opportunities exist to participate in interdepartmental programs such as the Purdue Cancer Center, Purdue University Neuroscience, and related graduate programs. Candidates must hold a Ph.D. and junior level applicants are expected to have at least two years of postdoctoral training. Minority and women scientists are especially encouraged to apply. Applicants should submit a curriculum vitae, a detailed description of research plans, and should arrange to have three letters of recommendation to: **Chair, DD Faculty Search Committee, Department of Medicinal Chemistry and Molecular Pharmacology, 1333 Robert Heine Pharmacy Building, Purdue University, West Lafayette, Indiana 47907-1333.** Review of the candidates will begin on November 1, 2000 and continue until the positions are filled.

Purdue University is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR NEUROBIOLOGY Tenure Track Faculty Position Bowdoin College

The Biology Department of Bowdoin College seeks to fill a tenure track position in Molecular Neurobiology at the **Assistant Professor** level beginning Fall 2001. The position involves a joint appointment in biology and the interdisciplinary neuroscience program. Teaching responsibilities will normally be 3 courses with labs per year, including a lower level course that covers material at both the cell/molecular and organismal levels of organization and an upper level course in the candidate's area of specialization. The successful applicant is expected to maintain an active research program involving undergraduates. Postdoctoral experience preferred.

Review of applications will begin October 15, 2000. Please send a CV, a letter of intent which includes a description of research interests and teaching philosophy, and have three letters of reference sent directly to: **Patsy Dickinson, Chair, Biology Department, Neuroscience Search, 6500 College Station, Bowdoin College, Brunswick, ME 04011-8465.** For further information about the college and the department, please see our website: www.bowdoin.edu.

Bowdoin College is committed to Equal Opportunity through Affirmative Action. Women and minorities are encouraged to apply.



The Salk Institute for Biological Studies Systems Neurobiology Laboratory POSTDOCTORAL POSITION IN COGNITIVE NEUROSCIENCE

A postdoctoral position in cognitive neuroscience is available immediately (starting date flexible) at The Salk Institute in the laboratory of John Reynolds.

Research in the laboratory focuses on the neuronal mechanisms of selective visual attention, using a combination of visual psychophysics, neurophysiology, and computational neural modeling. See: <http://www.salk.edu/faculty/reynolds.html> for more details about the laboratory and recent papers.

The candidate should have a strong background in electrophysiological recording, visual psychophysics, and/or neuronal modeling as evidenced by first-author publications. Programming experience with Matlab or C is very desirable. Proficient knowledge of the English language is required. Salary will be commensurate with level of experience.

Please send CV, two letters of reference, and representative publications to: **John Reynolds, PhD, Systems Neurobiology Laboratory, The Salk Institute, 10010 North Torrey Pines Road, La Jolla, CA 92037-1099; reynolds@salk.edu, fax: 858-455-7933.** Email application and inquiry are encouraged, especially if you would like to set up an interview at the coming Society for Neuroscience meeting.

The Salk Institute is an EOE.



COLD SPRING HARBOR LABORATORY Watson School of Biological Sciences

Why Cold
Spring Harbor
Laboratory?

*A tradition of
excellence*

*A world leader in
biological research*

*A global meeting
place for scientists*

*An innovative
four-year Ph.D.
program designed
for exceptional
students*

A New & Innovative Ph.D. Program

In September 1999, Cold Spring Harbor Laboratory began a newly accredited Ph.D. program in the biological sciences at the recently established Watson School of Biological Sciences. This innovative program provides an exciting and intensive educational experience aimed at training future leaders in science and society. The training each student receives is designed to produce Ph.D. graduates who think critically and independently, and who communicate clearly and effectively.

The curriculum takes advantage of the unique and flexible environment of Cold Spring Harbor Laboratory and includes the following features:

- a four-year program
- a first year with course work and laboratory rotations in separate phases
- continued advanced course instruction
- emphasis on scientific reasoning and logic
- a two-tier mentoring system

ELIGIBILITY The program is open to students of outstanding academic ability. Applicants must have received a Bachelor of Arts or Science or equivalent degree from an accredited university or college, prior to matriculation. Selection for admission will be based on the perceived ability of the student to excel in this doctoral program. There are no nationality requirements; we strive for a diverse student body.

STUDENT SUPPORT The Watson School of Biological Sciences will provide students with a stipend, tuition costs, health insurance, subsidized housing and research support.

HOW TO APPLY Application forms and information about the program and its faculty are available from our Web site www.cshl.org/gradschool or by contacting:

Watson School of Biological Sciences
Cold Spring Harbor Laboratory
One Bungtown Road
Cold Spring Harbor, NY 11724, USA.
Tel. 516/367-6890, Fax: 516/367-6919
Email: gradschool@cshl.org

The deadline for receipt of completed applications is January 1 annually; late applications may be considered.

A GRADUATE PROGRAM UNLIKE ANY OTHER...AT A PLACE UNLIKE ANY OTHER

TENURE TRACK PRINCIPAL INVESTIGATOR, National Cancer Institute

The Laboratory of Molecular Cell Biology, National Cancer Institute, invites applications for a Tenure Track Principal Investigator position in the area of the molecular biology of eukaryotic chromosomes and the cell nucleus. The LMCB, which will occupy newly constructed laboratories, fosters an interactive research environment and the use of diverse experimental approaches and model systems. Applicants should have a Ph.D. or M.D. degree, a strong publication record and demonstrated potential for imaginative research. Send a curriculum vitae, brief statement of research interests and 3 letters of recommendation by December 15, 2000 to:

Ms. Lois Schwartz
Executive Secretary
Search Committee, LMCB, NCI
Building 37, Room 5E-26
37 Convent Drive, MSC 4255
Bethesda, MD 20892-4255



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Computational Chemists — Working from our US corporate headquarters, you will serve as a member of Discovery project teams. Candidates will have a Ph.D. and preferably extensive experience in one or more of the following areas: structure-based design, combinatorial chemistry library design, pharmacophore elucidation, optimization of ADME properties, or leading informatics applications. Should be highly motivated and creative, with strong interpersonal and communication skills.

AstraZeneca offers a highly competitive compensation and family-friendly benefits package, including relocation. Please submit resume, indicating requisition #CAP4447/3587, to: **AstraZeneca, Attention: R & D Human Resources, 1800 Concord Pike OW3, P.O. Box 15437, Wilmington, DE 19850-5437 or FAX (302) 886-7124.** AstraZeneca is proud to be an equal opportunity employer.

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ROBERT WOOD JOHNSON MEDICAL SCHOOL CHAIR

Department of Pediatrics

The University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School seeks candidates for the position of Chair, Department of Pediatrics. Candidates must have an MD degree, be Board Certified and eligible for licensure in New Jersey. The desirable candidate should be of national stature for his/her accomplishments in Academic Pediatrics with outstanding leadership qualities. He/she must have demonstrated success in promoting excellent teaching, scholarship and research, as well as developing and implementing clinical programs.

Nominations should include a brief statement of the attributes and qualities of the individual which make him/her ideally suited for this position, and a curriculum vitae. Please send applications to the Chair of the search committee:

Peter S. Amenta, M.D., Ph.D.
**Professor and Chair, Department of Pathology
and Laboratory Medicine**
UMDNJ - Robert Wood Johnson Medical School
One Robert Wood Johnson Place
New Brunswick, NJ 08903

The Department of Pediatrics supports a number of nationally and internationally renowned researchers and clinicians. The Department has almost 100 faculty members in the divisions of General Pediatrics and 17 pediatric subspecialties. A new Children's Hospital will be completed on campus in Spring 2001 and construction of a new biomedical research institute, The Child Health Institute of New Jersey, will begin shortly. Other clinical affiliations continue to develop.

Visit our website at: <http://www.umdj.edu/hrweb/>



Founded in 1962, UMDNJ - Robert Wood Johnson Medical School, with campuses in New Brunswick/Piscataway and Camden, is one of eight schools of the University of Medicine and Dentistry of New Jersey. Located in Central New Jersey, approximately one hour from New York and Philadelphia, Robert Wood Johnson Medical School serves as the only academic health center for the region with a population of 3 million people.

UMDNJ is an Affirmative Action/Equal Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey. Women and minorities are encouraged to apply.

Faculty Position

The Pennington Biomedical Research Center at Louisiana State University invites applications for a faculty position at assistant professor, instructor, or research associate level. Applicants should have a Ph.D. or equivalent degree with a strong background and expertise in molecular and cell biology. The individual selected will participate in ongoing studies aiming to elucidate signaling pathways for cyclooxygenase gene expression. Rank and competitive salary will be commensurate with the applicant's qualifications. Applications will be accepted until a suitable applicant is found. Applicants should submit a curriculum vitae and names of three references to:

Ms. Evelyn Bennett
**Pennington Biomedical Research
Center**
6400 Perkins Road
Baton Rouge, LA 70808
(REF: Faculty-025174)

Further information may be obtained by
telephone: 225-763-2518

or

E-mail: HwangDH@pbrc.edu

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

PROFESSOR OF PSYCHIATRY (Genetics)

Harvard Medical School and Massachusetts General Hospital, Partners HealthCare System.

The Department of Psychiatry at Massachusetts General Hospital, Partners HealthCare System and the Harvard Medical School are inviting applications for the position of Professor of Psychiatry (Genetics). The candidate should be a senior scientist who has expertise both in molecular and quantitative aspects of human genetics relating to psychiatric disorders. Specific interests in developmental psychiatric disorders, affective disorders and schizophrenia would be an asset. The candidate should have a strong record of NIH funding for research programs. The candidate should also have a demonstrable ability to develop an independent research program and to mentor fellows and junior faculty, and an interest in establishing collaborations with other investigators at Harvard Medical School and its affiliated institutions.

Applicants must meet the academic criteria for appointment at the rank of Professor in the Consolidated Department of Psychiatry, Harvard Medical School. Qualified women and minority candidates are encouraged to apply.

Salary and recruitment package will be commensurate with qualifications and experience. Applicants should submit a curriculum vitae, a statement of their research interests, to the search committee chair:

**Gary L. Gottlieb, M.D., M.B.A., Chairman, Partners Psychiatry
and Mental Health System, Massachusetts General Hospital,
Bulfinch Building, Suite 370E, 55 Fruit Street, Boston, MA 02114.**

Review of applications will begin immediately and continue until the position is filled. Massachusetts General Hospital, Partners HealthCare System and the Harvard Medical School are Affirmative Action/Equal Opportunity/ADA Employers.



PARTNERS



nature genetics

Seeks an ASSISTANT EDITOR

Nature Genetics seeks an Assistant Editor to join its editorial team in New York City. This is a superb opportunity to enter the world of scientific publishing and remain at the forefront of research. Members of the editorial team evaluate manuscripts, oversee the review process, commission and edit News & Views articles, Commentaries, and Reviews, and write news items and editorials for the journal. The successful applicant will also attend meetings and conferences, visit laboratories, and maintain contact with the international scientific community. Applicants should have a strong research background in genetics (expertise in statistical analysis and human genetics preferred), a broad interest in science and scientific ideas, excellent communication skills, and the ability to work closely with others.

The office is situated in lower Manhattan, and *Nature Genetics* editors work alongside those of other Nature sister journals: *Nature Medicine*, *Nature Neuroscience*, *Nature Structural Biology*, *Nature Biotechnology* and *Nature Immunology*.

Applicants should submit a Curriculum Vitae, a short News & Views article (of 500-1000 words), and a cover letter explaining their interest in the position to The Editor, *Nature Genetics*, 345 Park Avenue South, New York, New York 10010, USA. (fax: 212 545 8341; e-mail: natgen@natureny.com)

The deadline for applications is 6 October, 2000.



HARVARD UNIVERSITY CENTER FOR GENOMICS RESEARCH FELLOW POSITION

We are building a community of scholars from a wide variety of fields, including biology, chemistry, physics, mathematics, computer science, and engineering to work under one roof and advance our understanding of complex biological systems.

If you are an exceptional researcher at the post-doctoral level and are interested in interdisciplinary genomics research, you are encouraged to apply for a Fellow position.

As a Fellow, the Harvard Center for Genomics Research (CGR) will fund you and your team of 1-2 post-docs or technicians for 3-5 years to work in one of three general areas: applying genomics to biological problems, developing new experimental methods of collecting genome-wide information, and building new analytic, computational, and theoretical tools for analyzing genome-wide data.

We welcome any technology or problem directed at a system-wide approach to biology. We are particularly interested in fostering small groups of fellows who would use complementary expertise to collaboratively attack important biological problems.

For more information and electronic submission of your application, visit cgr.harvard.edu or mail your application to:

Harvard Center for Genomics Research, 16 Divinity Avenue, Rm. 4104 Cambridge, MA 02138.

Harvard University is an affirmative action, equal opportunity employer.

National Institute of Mental Health/National Institutes of Health Department of Health and Human Services

The NIMH invites applications for extramural program positions within the Division of Neuroscience and Basic Behavioral Science. The Division is responsible for funding over \$300 million of NIMH extramural research grants in the areas of basic and clinical neuroscience, genetics, therapeutics development, and basic behavioral science, as well as research training in these areas. The goal is increased understanding of the etiology, treatment, and prevention of a broad spectrum of brain-behavior disorders..

Associate Div. Director, Program Analysis & Management (GS-14/15) (NIMH-00-113) Assists the Division Director in the scientific and administrative management of the division's research grant and contract portfolio, including analysis and evaluation of the current state of the fields of basic and clinical neuroscience, genetics, therapeutics development, and basic behavioral science, the national research portfolio, and developing research opportunities in the etiology, treatment, and prevention of brain-behavior disorders.

Chief, Basic Neuroscience Centers Program, Office of Translational Research & Scientific Technology (GS-13/14) (NIMH-00-112) Manages and develops a portfolio of extramural research center grants spanning the spectrum of neuroscience research supported in the Division: from molecular genetics studies of ion channels important in neurotransmission to neuroimaging studies of behaviors such as working memory. Broad interest in neuroscience and the ability to follow unfolding research areas on many fronts is highly desirable.

Chief, Integrative Neuroscience of Schizophrenia, Mood & Other Brain Disorders Program, Clinical Neuroscience Research Branch (GS-13/14) (NIMH-00-110) Manages and develops a portfolio of extramural research grants involving clinical neuroscience approaches to understanding the bases of complex mental disorders such as schizophrenia, mood and other brain disorders.

Chief, Cognitive Neuroscience Program, Behavioral & Integrative Neuroscience Research Branch (GS-13/14) (NIMH-00-111) Manages and develops a portfolio of extramural research grants involving the general area of cognitive neuroscience, including studies involving the neural basis of learning and memory, attention, perception, emotion and other "higher order" functions.

Applicants should have a PhD or MD degree, or equivalent training, in a discipline related to neuroscience and/or scientific technologies relevant to neuroscience, and should have an interest in developing a broad perspective in this area. They should have experience conducting related research at the postdoctoral level or as an independent investigator. Salaries range from \$60,890 to \$110,028 based on experience, grade and type of appointment. Physicians may be eligible for an additional Physician's Comparability Allowance (PCA) between \$5,000-\$20,000 a year. Full federal fringe benefits apply to these positions. Alternate appointment mechanisms may be used. Applicants are encouraged to view the full text vacancy announcements available on the World Wide Web: <http://www.nimh.nih.gov/orm/pmb/jobs.cfm>. Interested candidates may contact Ms. Margot Darby, NIMH Personnel Management Branch, at 301-443-9094. **ALL POSITIONS CLOSE DECEMBER 8, 2000.** Applications will be accepted if postmarked by the closing date and received within 5 business days.



National Institute of Mental Health/National Institutes of Health is an Equal Opportunity Employer



St. Jude Children's Research Hospital, an internationally renowned healthcare institution, combines leading edge technology with advanced biomedical research to search for cures for catastrophic diseases in children - primarily pediatric cancers.

We have recently embarked on an exciting and ambitious series of projects in connection with our 5-year, \$1 billion expansion program. Part of our goal is to update and deploy our highly advanced clinical and research systems which support our patient care and peer reviewed research activities.

DATABASE ANALYST/DEVELOPER

Job Code: SCI-5101LM

A unique opportunity is available for an experienced Database Analyst for the hospital's pharmacogenetics group. In this position, you will serve as liaison between the multi-institutional PAAR (Pharmacogenetics of Anticancer Agents) Group and the NIGMS-funded Pharmacogenetics Knowledge Base (Stanford University) and Pharmacogenetics Network (Yale). You will maintain the PAAR Group website; create and maintain databases for a human liver tissue bank; and be responsible for the implementation of relational databases, performing quality control, maintaining, and integrating all genetic and phenotypic data generated at St. Jude as part of the PAAR Group. Additional responsibilities include: working closely with the departmental Senior Database Administrator to integrate existing and new databases for pharmacogenetic data, and with the Director of the Hartwell Center for Bioinformatics and Biotechnology at SJCRH to ensure proper storage of genomics data; provide retrievals for investigators and statisticians on a real-time basis; work with investigators to ensure the efficient integration of molecular, biochemical laboratory, and toxicity data. Qualified candidate will possess a BSCS or degree in biomedical related field. A minimum of 3 years computer/IT experience or a post-graduate related degree with at least 2 years computer/IT experience required. Database management background required. Bioinformatics, web development and software development knowledge desired. Experience related to biomedical sciences, clinical medicine, or biochemistry preferred.

St. Jude offers competitive salaries and benefits as well the opportunity to grow professionally in a well founded, state-of-the-art facility. For consideration, forward resume and salary history to: **St. Jude Children's Research Hospital, Attn: Human Resources Dept.-Job Code: SCI-5101LM, 332 N. Lauderdale, Memphis, TN 38105. Fax: 901-495-3123. E-mail: lisa.martin@stjude.org** We are an equal opportunity employer. Photo courtesy of the St. Jude Biomedical Communications Dept.

www.stjude.org/hr



VETERINARY MEDICAL OFFICER

The USDA, Agricultural Research Service, National Program Staff, in Beltsville, Maryland, is seeking a National Program Leader for Animal Health, GS-0701-15. Salary commensurate with experience (\$84,638 - \$110,028 per year).

This national leadership position is responsible for planning, leading, coordinating and implementing agricultural research programs relating to animal health research. This position has specific education and experience requirements and factors that must be addressed. In order to ensure submission of a complete application, applicants must request a copy of the announcement by calling (301) 504-1484 or by printing it from the Internet at <http://www.ars.usda.gov>. Click on Employment Opportunities. The vacancy announcement number for this position is ARS-XOE-4124.

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Evaluation at Ann Arbor, Michigan, and the University of Michigan Medical School's Department of Pathology.

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This joint appointment will give you the opportunity to work creatively in both academic and industrial laboratory settings. Responsibilities will include helping discover the genes and their respective sequence polymorphisms that determine individual variability in drug efficacy and toxicity. This will involve applying state-of-the-art technologies in pharmacogenetics to investigate the function of genetic polymorphisms. You'll need a PhD in Molecular Biology, Genetics, Cell Biology or a related field with 0-1 years experience. Background in standard molecular biology and biochemical techniques is required, and skills with gene cloning, site-directed mutagenesis, differential gene expression, genotyping and related computer knowledge are preferred.

Recently ranked among *Fortune's* 100 Best Companies to Work For, Pfizer offers an exceptional work environment complete with training opportunities designed to develop your professional talents. Please submit your qualifications, indicating Ad Code: 00-07635C to PG RD Strategic Staffing, 2800 Plymouth Road, Ann Arbor, MI 48105 or fax 734.622.7617. An Equal Opportunity Employer, Pfizer offers a workplace rich with diversity and potential.

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Reporting to the Manager of Academic Computing, supports faculty and student use of information technologies in the Division of the Natural Sciences & Engineering. The specialist will share up-to-date knowledge about instructional hardware and software across the disciplines; provide expertise with multimedia and instructional development tools; offer training, documentation, and advanced computing support to faculty; and work with faculty members to plan and implement curricular and research projects. The Computing Coordinator will recommend appropriate hardware and software to meet needs related to instruction and collaborate in the planning of technology-rich labs and classrooms.

Requires a Bachelor's degree and several years of relevant work experience. Advanced degree in a natural science, mathematics, or engineering discipline preferred. The successful candidate will demonstrate broad familiarity with the software and electronic resources required by academic institutions, especially in the sciences; possess the ability to collaborate gracefully and imaginatively with teams of staff colleagues, faculty members, and students and have excellent technical skills, including thorough knowledge of Mac, Windows, and/or UNIX hardware and software tools, ability to design and execute complex Web sites, knowledge of appropriate programming/scripting languages, a willingness and ability to master and support the commonly-used software in the natural sciences. Strong oral and written communications skills, project management skills, and a positive customer service orientation are critical, as is the ability to meet deadlines and maintain a sense of humor.

Swarthmore College offers challenging professional opportunities, a beautiful suburban campus environment located just minutes from Philadelphia, and an excellent compensation package. For immediate consideration, please send letter of interest, resume, and list of three references to:

Associate Director, Human Resources, Swarthmore College, 500 College Avenue, Swarthmore, PA 19081.

Swarthmore College is an equal opportunity employer committed to excellence through diversity.

visit us at: www.swarthmore.edu





Protiva Biotherapeutics is an emerging biotechnology company with a leadership position in gene delivery. Our non-viral technologies are being applied to the development of products for the treatment of serious unmet medical needs. We are looking for energetic scientists to take part in this challenge.

Research Scientists

Our Research Scientists will play a key role in the development of novel lipid-mediated gene transfer systems. The successful applicants will have a Ph.D. in the biological sciences, with up to 3 years' post-doctoral experience in gene delivery or protein therapeutics. Tumor biology, tissue culture, transfection assay development, and PK/ADME experience is required. Excellent verbal and written communication skills are expected.

Chemist

The successful applicant will be responsible for the synthesis and purification of novel lipid compounds. You will have a M.Sc. or Ph.D. in Chemistry with experience in a university or industrial setting, preferably in lipid synthesis and assay development. Your experience clearly demonstrates strength in problem solving with a good working knowledge of liposome technology. Good communication skills are essential.

Research Associates

(Gene Delivery)

As a member of our Research group, you will participate in the design and implementation of studies in lipid-mediated gene transfer. This position requires a B.Sc. or M.Sc. in the biological sciences and 2 to 5 years' research experience, preferably including tissue culture, transfection, cytotoxicity, and tumor biology. *In vivo* experience would be an asset.

Research Associate

(Molecular Biology)

This position requires a B.Sc. or M.Sc. in the biological sciences and 2 to 5 years' research experience, preferably in the design, construction and manufacture of plasmid DNA expression constructs. Experience in cloning, PCR, Northern, Southern and Western analysis would be an asset.

Research Associates

(Formulation Development)

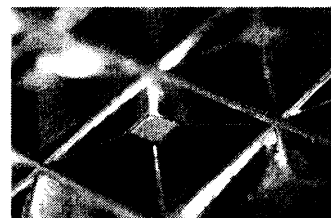
You have a degree in the biological sciences with at least one year of experience, preferably in industry. Your ability to work independently is a requirement. Experience in formulation development or liposome technology would be an asset.

Protiva offers a competitive compensation package including a stock option plan and full medical benefits. Located in Vancouver, Canada, we are minutes away from the Coastal Mountains and the Pacific Ocean. Consistently ranked among the most attractive and livable cities in the world. Vancouver offers a unique, cosmopolitan lifestyle with a distinctly international flavour.

Please contact Protiva Human Resources, 150-8900 Glenlyon Parkway, Burnaby, B.C., Canada V5J 5J8; tel.: (604) 419-3200; fax: (604) 419-3202; e-mail: careers@protivabio.com

www.protivabio.com

MULTI-FACETED.



Abbott Laboratories is guided by individuals with various backgrounds, experiences, perspectives and cultures.

Professionals from all over the world are drawn to Abbott Laboratories for different reasons. There are many aspects that make us a leader in the health care industry. From innovative solutions to an exciting work environment, there's something for everybody at Abbott Laboratories.

Help us improve lives - join Abbott in one of the following positions:

POSTDOCTORAL FELLOW

• 2 year Abbott extended temporary position •

The selected individual will perform *in vitro* / *in vivo* experiments designed to identify and describe the functional significance and impact of mammalian cellular transporters and efflux. Responsible for independent experimental design, execution, and interpretation of studies. A Ph.D. with *in vitro* experience in cellular transporters, specifically those located in gut, liver and kidney epithelium, and experience in *in vitro* permeability analyses and barrier cell function essential. Experience in biochemistry, novel drug transport, and assay development preferred. Knowledge of animal models and HIV drugs beneficial. Ad Code: 2K-CSC4401

ASSOCIATE PHARMACOLOGISTS

The Biological Screening Group has 2 Associate Pharmacologist positions available for individuals who will appropriately analyze and communicate project results. Working in the high-throughput screening (HTS) group, you will develop, optimize, and run various HTS and Ultra High Density screening assays. A B.S. or M.S. in a relevant biological/chemical science, and experience in assay development, molecular biology, enzymology, and ligand-binding assays are required. Excellent communication, interpersonal and teamwork skills, and computer literacy essential. Ad Code: 2K-KDA2058

Push the limits of your skills and talents with Abbott Laboratories - a company on the cutting-edge of tomorrow. In return for your commitment to innovation, we offer a competitive compensation and benefits package. To learn more, or to respond online, please visit us at www.abbott.com and enter Ad Code: (insert from above). Or by mail to Abbott Laboratories, Ad Code: (insert from above), Dept. 583, Bldg. AP9A, 100 Abbott Park Road, Abbott Park, IL 60064-3537.

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**Be a Part of the Discovery of
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Molecular Virologists, Molecular Biologists & Medicinal Chemists

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

Molecular Virologists: Several positions, ranging from Director to Research Associate, are open. Scientists will work in a team of molecular virologists and cell biologists focused on the characterization of small molecule therapeutics, the development of cell-based and molecular assays for anti-infective agents, and the characterization of candidate therapeutics in support of the drug development program.

Medicinal and Computational Chemists: Several positions, from Director to Research Associate, are open. Scientists will be a part of a group of medicinal and computational chemists seeking to design, optimize, and synthesize novel anti-infective agents utilizing both classical medicinal chemistry and modern combinatorial chemistry. Computational chemists will work with a group of molecular virologists, medicinal chemists, and molecular biologists to integrate molecular modeling and computational chemistry efforts into the design and optimization of small molecule antiviral agents.

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

Achillion is located in New Haven, CT, across the street from Yale University School of Medicine, with which it maintains close scientific ties, and near numerous pharmaceutical and biotechnology companies. Along with the opportunity to participate in an exciting and challenging scientific endeavor, Achillion offers highly competitive compensation and benefits packages. For prompt consideration for these positions, please e-mail or mail your CV indicating the position of interest and the names of three references to:

**Human Resources
Achillion Pharmaceuticals
300 George St.
New Haven, CT 06510
dbuechter@achillion.com**



ACHILLION
PHARMACEUTICALS, INC.

**JUNIOR FACULTY POSITIONS AT
THE FRED HUTCHINSON CANCER RESEARCH CENTER**

The Division of Human Biology at the Fred Hutchinson Cancer Research Center in Seattle is soliciting applications for two positions at the junior faculty level. One of the two recruitments is specifically targeted to expand the Center's strengths in human/mammalian genomics and genetics. We are seeking individuals with research interests in developing the tools of genomics, computational biology, or population-based approaches and applying them to study human biology and disease. For the second position, we are seeking individuals studying any aspect of human biology, cancer, or other disease.

The goal of the Human Biology Division is to use the research tools of molecular biology, cellular biology, genetics, and computational biology to further our understanding of human biology and disease. The Division fosters interdisciplinary, collaborative research at the interface of basic, clinical, and population sciences in an effort to improve the prevention and treatment of cancer and other complex human disorders. Additional information about the Division can be found at: http://www.fhcrc.org/science/human_biology.

The Division laboratories are part of a new lakeside campus and include state-of-the-art research facilities. The Cancer Center has committed major resources to developing outstanding core facilities in support of biological research. The Center has active graduate-student and postdoctoral training programs and offers exceptional opportunities for scientific interactions with other investigators in the Seattle area.

Candidates should send a curriculum vitae, a concise statement of research plans, and three letters of reference to: Human Biology Faculty Search Committee, Fred Hutchinson Cancer Research Center, Division of Human Biology, Mailstop: C3-168, 1100 Fairview Avenue North, P.O. Box 19024, Seattle WA 98109-1024. The application deadline is October 31, 2000.

The Fred Hutchinson Cancer Research Center is an Equal Opportunity Employer committed to workforce diversity. Applications from female and minority candidates are strongly encouraged.



Simon Fraser University

**Department of Molecular
Biology and Biochemistry**

Tenure Track Faculty Positions

The Department of Molecular Biology and Biochemistry seeks applicants for full-time, tenure-track faculty positions in the three areas listed below. At least two of the positions will be filled at the rank of Assistant Professor. One may be filled at the rank of Associate Professor. Appointments may begin as early as September 1, 2001.

Successful applicants will be expected to establish externally funded and independent research programs in their areas of expertise, augmenting existing research strengths in the Department. They will also contribute to the undergraduate and graduate teaching programs in molecular biology and biochemistry.

1. **Structural Biochemistry.** Structure-function analyses of biological macromolecules using NMR, x-ray crystallography and/or biochemical, spectroscopic and computational approaches.
2. **Genomics.** Development and application of analytical approaches to the analysis of complex genomes; may include comparative, functional or structural analyses.
3. **Developmental Genetics.** Molecular and genetic approaches to understanding fundamental processes of development in model organisms.

A Ph.D. and relevant postdoctoral experience are required. Applicants should send curriculum vitae, a statement of research interests, reprints of up to five research publications and arrange to have letters sent from three referees to:

**Faculty Search Committee
Department of Molecular Biology
and Biochemistry
Simon Fraser University
Burnaby, B.C. V5A 1S6
Canada**

Further information about the Department is available at <http://darwin.mbb.sfu.ca>. Review of applications will begin November 1, 2000. Applicants should clearly identify the position for which they wish to be considered.

In accordance with Canadian Immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents.

Simon Fraser is committed to the principle of equity in employment and offers equal employment opportunities to qualified applicants. Simon Fraser University maintains a web site of available positions to assist partners of qualified applicants in identifying job opportunities at <http://www.sfu.ca/vpacademic/openings/index.html>.

POSTDOCTORAL POSITIONS are available in the laboratory of Dr. Richard L. Proia, Genetics of Development and Disease Branch, National Institute of Diabetes and Digestive and Kidney Diseases, NIH, in Bethesda, MD. For information about the Branch and Institute, see: <http://www.niddk.nih.gov>. Areas of research include the physiologic roles of sphingosine-1-phosphate in G-protein-coupled receptor signaling; functions of glycosphingolipids; and mechanisms of neurodegeneration in sphingolipid storage diseases. Approaches include conventional/conditional mouse knockouts and global gene expression analysis. For details see PNAS 95: 2503 (1998); J. Clin Invest 101: 1881 (1998); J Clin Invest 103: 497 (1999); PNAS 96: 9142 (1999); Hum. Mol Genet 9: 1087 (2000). Candidates should have a Ph.D and/or M.D. and less than 5 years of post-doctoral experience. Experience in cell and molecular biology is preferred. Send CV with list of publications, a brief description of research experience and the names and addresses of 3 reference to: **Dr. Richard L. Proia, Building 10, Room 9N-314, 10 CENTER DR MSC 1821, National Institutes of Health, Bethesda, MD 20892**
NIH is an Equal Opportunity Employer



**National Human
Genome Research
Institute**

Program Director Genome Informatics

The NHGRI is seeking a Ph.D. (or equivalent)-level scientist to manage a new program in genome informatics, which will support a variety of bioinformatics and computational biology projects, including databases, centers for genomic research, and analysis of genomic data. Responsibilities include developing new initiatives, encouraging researchers with novel ideas, and interacting with related programs at NIH and at other agencies.

Candidates must have experience in bioinformatics, databases, or computational biology and broad knowledge of biology, particularly genetics and genomics. Preference will be given to candidates with management experience. Independence, the ability to work in teams, and strong communication, writing, and organizational skills are required. The position may be filled on a permanent or rotating basis. Salary will be commensurate with experience. See www.nhgri.nih.gov/About_NHGRI/Der/ginform.htm

Contact Elke Jordan, Ph.D., Deputy Director, National Human Genome Research Inst., National Institutes of Health, Bethesda, MD 20892-2033, 301-496-0844, elkej@mail.nih.gov

NIH is an Equal Opportunity Employer

PENNSTATE



**University
Park**

HEAD, DEPARTMENT OF PLANT PATHOLOGY and PROFESSOR OF PLANT PATHOLOGY

The Faculty of the Department of Plant Pathology at The Pennsylvania State University are seeking a dynamic individual as Department Head to provide leadership and vision for guiding future development of the Department. The Department is internationally recognized and provides an intellectually stimulating environment with broad academic appeal. Newly developing programs include mycotoxicology, fungal systematics, fungal molecular genetics, phyto bacteriology, and turfgrass pathology. The Faculty is recognized nationally and internationally for research and extension programs in host-pathogen interactions and pathogenicity, environmental sciences, plant physiology, mushroom science, and virus-vector interactions. The Faculty support strong cooperative extension programs in fruit, vegetable, field, greenhouse, mushroom, and turfgrass. In addition, Faculty are highly involved in interdepartmental collaborative studies across the University, as well as statewide, nationally, and internationally.

Responsibilities: The person filling this position is the departmental program leader and administrative officer and reports directly to the Dean of the College of Agricultural Sciences. Duties will include:

- Academic program leadership in research, undergraduate and graduate programs, and cooperative extension education and outreach.
- Administrative responsibility for academic affairs, departmental personnel, financial matters, and physical facilities.
- Leadership and coordination of departmental relations with the public, including agricultural producers, agricultural industry, government, and other citizens of the Commonwealth of Pennsylvania.

Qualifications: All candidates should possess a Ph.D. in Plant Pathology or a closely related field, plus the following attributes:

- A significant period of professional and/or academic experience in plant pathology with a strong record of scholarly activities.
- Understanding of the Land-Grant university system.
- Experience or knowledge of university research, teaching, and cooperative extension functions.
- Program and administrative leadership experience or strong evidence of the potential for program and administrative leadership.
- Ability to communicate effectively.

The Department of Plant Pathology: The goal of the Department of Plant Pathology is to achieve excellence in research, teaching, and extension education and outreach. Departmental programs reflect the needs of agriculture, the science, and the profession locally, nationally, and internationally. The department is committed to a democratic organization for administration and governance that maximizes faculty input, freedom, and the opportunity for outstanding individual and collective program development.

The Department was established as an organized unit in 1963. At present, the faculty consists of 23 full-time persons of professorial rank, 4 adjunct faculty appointments, and 3 senior research assistants. A number of faculty members also have joint appointments with various centers and institutes across the university. There are 25 students enrolled in the Plant Pathology graduate program. Faculty also participate in the Agro-Ecosystems Sciences and Environmental Resource Management undergraduate majors.

Resources available include centralized offices, teaching and research laboratories, greenhouses, the Mushroom Research Center, and the Fusarium Research Center, which are located on the main campus. Additional facilities are maintained in the Forest Resources Lab and at the Plant Pathology Farm at the Russell E. Larson Research Center at Rock Springs, approximately 10 miles from campus. Two faculty members conduct their research and extension programs at the Fruit Research and Extension Center at Biglerville.

Location: The Department of Plant Pathology is located in Buckhout Laboratory on Penn State's main campus at University Park, Pennsylvania. Student enrollment at University Park is in excess of 40,000 undergraduate and graduate students. State College and its metropolitan area have a population of about 100,000. The surrounding area is rural-agricultural with an Appalachian ridge and valley topography. Area schools for children are excellent. The town and campus area supports an abundance of cultural events, sports, and other entertainment. Outdoor recreation opportunities are within walking distance of the campus.

Availability: July 1, 2001. Salary: Commensurate with the qualifications and experience of the applicant. An excellent benefits package is provided.

Closing Date: November 15, 2000, or until a suitable candidate is identified.

Application: Letter of application and supporting information should include complete resume with documentation of academic training and professional leadership, a statement of leadership philosophy and vision and the names, addresses, and telephone numbers of five individuals who can be contacted for recommendations, to:

**Dr. James W. Travis, Professor of Plant Pathology
Chairman, Search Committee
210 Buckhout Laboratory, Box D, Pos. #: T-8565
The Pennsylvania State University
University Park, PA 16802-4507**

Contact Dr. Travis for more information at the above address or by email at jwt2@psu.edu.

To learn more about the Department of Plant Pathology at Penn State, please visit our website at: www.ppath.cas.psu.edu

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.



**Ludwig Institute for Cancer Research
at
University of California - San Diego
Assistant Member/Assistant Professor**

The Ludwig Institute is a nonprofit research organization with a branch housed in the Cellular Molecular Medicine-East building on the La Jolla campus of the University of California at San Diego School of Medicine. Applications are invited for a position at the Assistant Member level (with a companion tenure-track appointment in a University department likely). Applicants should have a Ph.D., M.D. or combined M.D./Ph.D. degree and demonstrated ability to conduct a state-of-the-art research program in molecular cell biology or genetics. Of special interest are areas including cell cycle and cell growth control or stem cell biology. Core salaries, research support and relocation expenses will be provided commensurate with experience.

Candidates should send curriculum vitae, statement of professional goals and research interests, and arrange to have at least three referees send letters directly to the Institute. Applications should be received before October 30, 2000, to insure full consideration.

**c/o Dr. Don Cleveland
Ludwig Institute for Cancer Research
University of California - San Diego
9500 Gilman Drive
La Jolla, CA 92093-0660**



**University of Michigan
Program in Immunology**

Pre-doctoral and Post-doctoral Positions

The University of Michigan Graduate Program in Immunology has been awarded a Training Grant in Experimental Immunology from the National Institute of Allergy and Infectious Disease. Positions are available for pre-doctoral and post-doctoral trainees with interests in basic immunology and in immunological mechanisms of disease. Mentors are from the departments of Pathology, Medicine, Microbiology and Immunology, and Surgery.

Pre-doctoral and post-doctoral candidates with **U.S. citizenship or with permanent resident status** interested in joining the program should send a cover letter and CV to:

Dr. Richard Miller (PI), c/o F. Ellen Elkin, University of Michigan, Graduate Program in Immunology, 1150 West Medical Center Drive, Ann Arbor, Michigan 48109-0619, E-mail: eelkin@umich.edu

University of Michigan is an equal opportunity employer

**UNIVERSITY OF MINNESOTA
Twin Cities**

**Department of Genetics, Cell Biology, and Development
Tenure-Track Faculty Positions**

The Department of Genetics, Cell Biology, and Development seeks candidates for two new tenure-track positions at the Assistant or Associate Professor level in the disciplines of Cell Biology and/or Genetics. The Department serves as a focal point for the University of Minnesota's \$123 million initiative in Molecular and Cellular Biology and will be housed largely in the new MCB building to be occupied April 2002. Research strengths in the Department include structure/function of the cytoskeleton, transposon biology and genome manipulation, human and cancer genetics, and developmental genetics of model organisms (including fungi, worms, flies, zebrafish and mice). Candidates working in all areas of Cell Biology or in Genetics will be considered, but specific areas of research expertise sought in Cell Biology include signal transduction, membrane trafficking, cell interactions, nuclear-cytoplasmic interactions, growth control and the cell cycle. Those sought in Genetics include gene expression, genomics (including whole-genome approaches), gene interactions and regulatory pathways, and chromosome organization and function.

Candidates must have a Ph.D. and/or M.D. degree, at least two years of postdoctoral experience, and a strong publication record. Successful candidates will be expected to develop independent, externally funded research programs. The ability to interact collaboratively among a variety of disciplines will be encouraged and participation in the undergraduate, graduate and/or professional teaching programs of the Department will be expected. Successful candidates must be U.S. citizens or be able to secure permanent resident status. Successful candidates will receive starting salaries commensurate with education and experience and substantial start-up packages. For additional information on the Department, and the University, see <http://www.gcd.med.umn.edu>.

Please send a curriculum vitae, statement of research interests, and three letters of recommendation that consider both research and teaching potential to: **GCD Faculty Search Committee, c/o Mary Muwahid, University of Minnesota, Department of Genetics, Cell Biology, and Development, 6-160 Jackson Hall, 321 Church Street SE, Minneapolis, MN 55455.** Review of applications will begin October 15, 2000 and will continue until the positions are filled.

The University of Minnesota is an equal opportunity educator and employer.



**FACULTY POSITION IN
COMPUTATIONAL BIOLOGY/
GENOMICS**

**Department of Biology / University of
Pennsylvania**

The Department of Biology is in the midst of a significant expansion and wishes to recruit new tenure-track faculty in the area of Genomics and/or Computational Biology. Appointment may be made at any level (Assistant through Full Professor) and will include full affiliation with other departments (as appropriate), the Center for Bioinformatics, and the newly established University of Pennsylvania Genomics Institute.

Applicants are expected to have demonstrated excellence and productivity in research and a desire to participate in teaching at the graduate and undergraduate levels. Particular attention will be paid to candidates working on projects with an applied or experimental orientation and those poised to take advantage of the interdisciplinary research and educational environment at Penn. Extensive commitments throughout the university provide a stimulating network of colleagues engaged in genomics and computational research, an interdisciplinary environment capable of facilitating successful collaborations, and extensive computational and technological infrastructure.

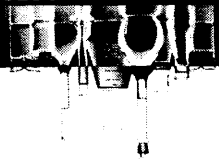
Candidates should send a CV, description of research interests, up to 5 reprints (or a list of relevant URLs), and a list of references to:

**Computational Biology/Genomics Search
Department of Biology, University of Pennsylvania
Philadelphia, PA 19104-6018 U.S.A.**

Review of applications will begin November 15, 2000. Further information on the department can be found on-line at: www.sas.upenn.edu/biology.

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

BIOTECHNOLOGY



**WERE TURNING
OUR INDUSTRY**

UPSIDE DOWN

Molecular Dynamics' highly collaborative approach to develop next-generation systems for high-throughput DNA sequencing and molecular biology applications greatly improves the productivity of molecular and cell biologists by automating routine procedures, increasing speed and accuracy of quantitation, and enabling new bioanalytical techniques.

Our strategic alliance with Amersham Pharmacia Biotech Ltd has brought together their state-of-the-art molecular biology and chemistry skills with our instrumentation and software capabilities to successfully develop and market complete DNA sequencing and genomic analysis systems.

We're seeking highly motivated and dedicated professionals to join us in the following areas:

RESEARCH

- Bioinformatics
- Genomics
- Molecular Biology
- Microarray

MANUFACTURING

- Testers
 - QA/QC
 - Assemblers
- (Opto-mechanical)

ENGINEERING

- Electrical
- Electronic
- Firmware
- Mechanical

SOFTWARE

- Oracle DBA
- Scientific Programming
- Quality Assurance
- UNIX System Administrator

This is not an exhaustive list of all the opportunities at Molecular... It is, however, a good place to start. For more information on these, as well as our other opportunities, please visit our website at: **www.mdyn.com**

Molecular Dynamics offers competitive salaries, attractive benefits and the unparalleled opportunity to be part of an exciting company where the potential for growth is boundless. Please send your resume and cover letter to: Molecular Dynamics, Attn: Professional Staffing, 928 East Arques Avenue, Sunnyvale, CA 94086-4520 USA; FAX: (408) 773-8343; or EMail: Jobs.mdyn@am.apbiotech.com

NOTE: Please specify the position of interest in your cover letter.

www.mdyn.com

EOE



molecular dynamics

part of the Amersham Pharmacia Biotech Group

DIRECTOR, ANIMAL RESOURCE PROGRAM (ARP) Office of the Vice President for Research The Pennsylvania State University

The Pennsylvania State University at University Park, a major public land-grant research university with research activity exceeding \$400 million annually, invites applications and nominations for a 48-week appointment as Director of the Animal Resource Program and as Institutional Veterinarian, reporting to the Associate Vice President for Research. If appropriate, the position carries a tenured, academic appointment in the Department of Veterinary Science, College of Agricultural Sciences.

Responsibilities:

- provide continued leadership and vision in planning, coordinating, and oversight of the research and instructional animal care and use program including financial management and supervision of the staff, consisting of a Program Coordinator and three veterinarians, two of whom have training and experience in laboratory animal medicine and the third in large animal and wildlife medicine
- provide necessary support to the Institutional Animal Care and Use Committee and to faculty, students, and staff to assure compliance with applicable laws and regulations concerning the use of animals in instructional and research activities
- oversee the operation of an expanding centralized laboratory animal care and use program for six administrative units at University Park and the Commonwealth Educational System which involves nine facilities plus a stand-alone 40,000 square foot central animal facility, and more than 10,000 laboratory animals; other facilities include a barrier for aging mice and a recently NIH-funded transgenic mouse barrier
- provide necessary guidance and oversight for the care and use of agricultural animals and wildlife used to support active and nationally recognized teaching, research, and extension programs
- develop and maintain an active American College of Laboratory Animal Medicine approved residency training program and/or an advanced degree comparative medicine research training program for veterinarians
- pursue aggressively extramural funding from private and public sources to support the infrastructure of the Animal Resource Program and the University biomedical research community
- provide leadership to the research community in the selection of cutting edge animal models and methods of implementing the transfer of technology related to animal research activities

Qualifications:

The successful candidate must be a graduate of a college of veterinary medicine accredited by the American Veterinary Medicine Association (AVMA), boarded by the American College of Laboratory Animal Medicine (ACLAM), and have at least five years experience in program management. Preference will be given to individuals with a Ph.D. research degree, knowledge of advanced biomedical and molecular methods, excellent communication skills, and a demonstrated record of scholarly activity if an academic position is sought. Review of resumes will begin immediately and continue until the position is filled. Send nominations or letters of application, resume, and names, addresses, telephone numbers, and e-mails of five references to:

Dr. Robert A. Schlegel, Chair
Search Committee for ARP Director
The Pennsylvania State University
304 Old Main, Box S
University Park, PA 16802

*An Affirmative Action/Equal Opportunity Employer
Women and Minorities Encouraged to Apply*

8 FACULTY POSITIONS Brain Research Centre

The Brain Research Centre of UBC and Vancouver Hospital is embarking on a major expansion of its programs, based on recent successes in attracting substantial infrastructure funding. We have available a total of 8 Faculty positions, at both senior and junior levels, across a broad spectrum of areas in **Neuroscience**. Applications are invited in the areas of **Stroke, Neuroprotection, Neurodegenerative Disorders, Postnatal Brain Development, Neuronal Plasticity, Synaptic Mechanisms, and Cell Signaling**. The Centre specifically encourages individuals using brain imaging and/or molecular genetic strategies to apply.

The University of British Columbia hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. Applicants should submit a curriculum vitae, the names of three referees, and a statement of current research interests and future plans to:

Dr. Max Cynader
Director, Brain Research Centre
University of British Columbia, and
Vancouver Hospital and Health Sciences Centre
2211 Wesbrook Mall
Vancouver, BC V6T 2B5 Canada
Fax: (604) 822-0361
Email: cynader@brain.ubc.ca

Deadline for applications is November 15, 2000



CANCER RESEARCH/ MOLECULAR GENETICS

Assistant/Associate/Full Professor

As part of an expansion in basic Cancer Research, Creighton University invites applications for a tenure-track position. The area of interest is molecular genetics/molecular biology of cancer. The successful applicant will have the opportunity to collaborate with Henry T. Lynch, M.D. on his ongoing projects in hereditary cancer research. Applicants should have the following qualifications: Ph.D., M.D. or M.D./Ph.D. degrees, postdoctoral training, evidence of research accomplishment, and promise to become a leader in the area of cancer molecular genetics. Preference will be given to candidates demonstrating prior success in securing peer-reviewed funding for their research. Successful candidates will be expected to conduct vigorous independent research programs, and to participate in teaching and training students and fellows. Appointment in one or more departments is possible. Rank will be determined by the qualifications of the applicant. Substantial laboratory space, equipment, generous start-up and ongoing funding will be available. Significant funding will be available through an institutional grant from the State of Nebraska Cancer and Smoking Disease Research Program. Applicants should send a curriculum vitae, a brief outline of their research program and future research plans, a statement of teaching interests, and arrange for three letters of reference to be sent to:

Cancer Genetics Search Committee Chair
c/o Ms. K. Taggart
Grants Administration
Creighton University
2500 California Plaza
Omaha, NE 68178

Applications will be screened immediately and will continue to be accepted until the position is filled.

Creighton University is an Affirmative Action/Equal Opportunity Employer.

Opportunities



Developmental Biology Assistant/Associate/Full Professor

The Developmental Biology Division of the Cincinnati Children's Hospital Research Foundation is undertaking a major expansion under the direction of Dr. Christopher Wylie. It is anticipated that at least five additional tenured or tenure track faculty positions will be filled over the next four years. Applicants at all levels will be considered. Organogenesis, stem cell differentiation, and pattern formation are major interests, but innovative, high quality research in any aspect of vertebrate and/or invertebrate developmental biology will be the prime consideration. Attractions include outstanding start up packages, new research facilities, an excellent graduate program and modest teaching responsibilities. This search will continue until all positions have been filled.

Please provide curriculum vitae, names and addresses of three references, and a description of research interests to:

Dr. Janet Heasman, Chair, Search Committee
Division of Developmental Biology
Children's Hospital Research Foundation
TCHRF 3014 • 3333 Burnet Avenue
Cincinnati, OH 45229

Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

Assistant Professor Molecular and Environmental Microbiology University of Colorado at Boulder

The Department of Molecular, Cellular and Developmental Biology (MCDB) and the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado at Boulder seek applicants for a tenure-track faculty position in microbiology. Preference will be given to candidates at the Assistant Professor level, but all applicants will be considered. The successful candidate will have a record of scholarly achievement in molecular and environmental microbiology with an emphasis on prokaryotic molecular biology and be interested in collaborative research in environmental sciences. Research areas of special interest include a) the application of molecular methods to problems in environmental sciences and b) extremophile biology. For more information about MCDB and CIRES, please see our Web sites at <http://mcdb.colorado.edu> and <http://cires.colorado.edu>.

Applicants should send a cover letter, curriculum vitae and a statement of research plans and arrange for three letters of reference to be sent to:

Professor Norman Pace
Professor Shelley D. Copley
Microbiology Search Committee
Cooperative Institute for Research in
Environmental Sciences
Campus Box 216
University of Colorado at Boulder
Boulder, CO 80309-0216

The search committee will begin considering applications on Oct. 31, 2000, and the search will continue until the position is filled.

The University of Colorado is committed to diversity and equality in education and employment.

**UNIVERSITY OF CALIFORNIA
SAN FRANCISCO**

**Program in Human Genetics and
Cardiovascular Research Institute**

Tenure track position at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level will be offered in UCSF's Cardiovascular Research Institute. Access to Graduate Programs and a joint appointment in a Basic Science or Clinical Department will be provided. Individuals working in the field of Human Genetics with a focus on cardiovascular biology and disease and/or genetic analysis of complex traits will be considered. Candidates should hold an M.D. or Ph.D. degree and will be expected to establish an exciting research program, to actively contribute to CVRI and Genetics training programs, and to participate in graduate education through the Program in Biological Sciences or Biomedical Sciences Program. Candidates for the Associate and Full Professor levels will have already established leading programs in their fields. By December 15, 2000, submit a curriculum vitae, summary of research accomplishments, description of research plans, major publications, and three to five letters of recommendation to: **Shaun Coughlin, M.D., Ph.D. and Ira Herskowitz, Ph.D., c/o Search Committee, Box 0130, 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.



**VETERINARY MEDICAL
OFFICER/ENTOMOLOGIST**

The USDA, Agricultural Research Service, National Program Staff, in Beltsville, Maryland, is seeking a National Program Leader for Veterinary and Medical Entomology, GS-0414-15/GS-701-15. Salary commensurate with experience (\$84,638 - \$110,028 per year).

This national leadership position is responsible for planning, leading, coordinating and implementing agricultural research programs relating to insect pests of veterinary and medical importance. This position has specific education and experience requirements and factors that must be addressed. In order to ensure submission of a complete application, applicants must request a copy of the announcement by calling (301) 504-1484 or by printing it from the Internet at <http://www.ars.usda.gov>. Click on Employment Opportunities. The vacancy announcement number for this position is ARS-XOE-4125.

USDA/ARS is an equal opportunity employer and provider.

Tenured/Tenure-Track Positions

**National Institute of Allergy
and Infectious Diseases**

The Laboratory of Human Bacterial Pathogenesis (LHBP) at the National Institute of Allergy and Infectious Diseases, National Institutes of Health, is currently recruiting for two tenured or tenure-track scientists. We seek scientists whose research efforts focus on genome-scale analyses of group A *Streptococcus*, *Mycobacterium tuberculosis*, or pathogenic staphylococci. Individuals using DNA microarray, proteomics, or large-scale gene expression strategies to investigate host-pathogen interactions or identify potential new vaccine candidates or drug targets are especially sought. However, exceptional candidates working on other human bacterial pathogens will also be considered and are encouraged to apply.

The LHBP, located at the Rocky Mountain Laboratories in the scenic Bitterroot Valley in Hamilton, Montana, is an interdisciplinary group exploring fundamental molecular processes of host-pathogen interaction. Research in this new laboratory is primarily concerned with the molecular basis of pathogenesis of the following bacteria: Group A *Streptococcus*, *Mycobacterium tuberculosis*, *Borrelia* species, *Yersinia pestis*, and *Neisseria gonorrhoeae* (see <http://www.niaid.nih.gov/dir/labs/lhbp.htm>; <http://www.niaid.nih.gov/dir/labs/lmsf.htm>). Research opportunities are being expanded significantly in the area of group A *Streptococcus*, *Mycobacterium tuberculosis*, and pathogenic staphylococci. However, exceptional candidates working in other areas of human bacterial pathogenesis, including research on *Borrelia* species and *Yersinia pestis*, will also be considered and are encouraged to apply. We are especially interested in individuals whose research complements ongoing work in LHBP and focuses on molecular processes occurring in the human host or relevant animal model of human disease.

Individuals selected for a tenure-track position are expected to build a dynamic and productive research group. Applicants for tenured positions must have an international reputation and well-documented evidence of ongoing independent accomplishments. Laboratory facilities, start-up and sustained research funds, and salary will be competitive with premier academic institutions. The facility is undergoing significant scientific expansion. Facilities are available for state-of-the-art genome analysis; electron and confocal microscopy, and other imaging techniques; Biosafety level-3 pathogen research; and a vivarium that includes non-human primates. Other scientific interests of investigators at this facility include chlamydia (<http://www.niaid.nih.gov/dir/labs/licp.htm>) and persistent viral diseases (<http://www.niaid.nih.gov/dir/labs/lpvd.htm>).

Please direct programmatic inquiries to: **Dr. James M. Musser, Chief, LHBP via email: jmusser@niaid.nih.gov.**

Application Process: Applicants must be U.S. citizens, resident aliens, or nonresident aliens with or eligible to obtain a valid employment authorized visa. Salary depends on degree and qualifications. Other incentives may be available. A curriculum vitae, bibliography, three letters of reference, a statement of research interests and selected publications must be submitted by November 1 to:

**Ms. Kim Tran
Office of Human Resources Management
NIAID, Bldg. 31, Room 7A27
31 Center Drive, MSC 2520
Bethesda, Maryland 20892-2520**

Applicants interested in applying must submit a complete package and cite vacancy announcement number NIAID-00-153 on the package. All information provided by applicants will remain confidential and will only be viewed by authorized officials of the NIAID.

The NIH is an Equal Opportunity Employer

Northeastern Ohio Universities College of Medicine FACULTY POSITION IN NEUROSCIENCE

The Department of Neurobiology and Pharmacology of the Northeastern Ohio Universities College of Medicine (NEOUCOM) (website: <http://www.neoucom.edu>) seeks applications for a tenure-track position in neuroscience with teaching responsibilities in Medical Pharmacology. Proposed starting date of July 1, 2001 or earlier. We seek applicants at the ASSISTANT PROFESSOR level but may consider more advanced faculty. Candidates must have a Ph.D. and/or M.D. and should have at least 2 years of postdoctoral experience. Applicants must have demonstrated research productivity and the capability of establishing an externally funded research program. Current research interests in the department include sensory and auditory processing in the CNS, neurochemical anatomy and steroids in the nervous system, neuroimmunology, synaptic plasticity, LTP in spatial learning, age & gender relations to neuropathic pain, mechanisms of synaptic modulation and regulation of neural gene expression using a zebrafish model and molecular correlates of Alzheimer's disease. We seek individuals who can complement ongoing research. Opportunities for collaborations are excellent. Successful candidates will teach medical and graduate students in a Medical Pharmacology course and participate in an interdisciplinary graduate program and develop graduate courses in their field of expertise.

NEOUCOM participates in a consortium with Kent State University, University of Akron, Youngstown State University and eight teaching hospitals to offer combined B.S./M.D. Degrees. Basic medical science faculty participate in Ph.D. graduate programs in conjunction with the School of Biomedical Sciences at Kent State University. Graduate training opportunities in Biomedical Engineering are available in collaboration with the Institute for Biomedical Engineering Research at The University of Akron.

Applicants should send a letter of application accompanied by a curriculum vitae, a statement describing research interests, goals and plans for external support, as well as the names and complete addresses of three references by November 1, 2000. Send materials to: **Human Resources, c/o Raymond E. Papka, Ph.D., Professor and Chairperson, Department of Neurobiology and Pharmacology, Northeastern Ohio Universities College of Medicine, PO Box 95, Rootstown, OH 44272**

NEOUCOM is an Affirmative Action/Equal Opportunity Employer.

Regulatory Scientists



Job Summary: The Department of Health and Human Services, Food and Drug Administration (FDA), Center for Food Safety and Applied Nutrition (CFSAN) is recruiting regulatory scientists at FDA's headquarters in Washington, DC. CFSAN is responsible for ensuring the safety and wholesomeness of the U.S. food supply. CFSAN's Office of Premarket Approval (OPA) is responsible for the review and evaluation of technical and other data submitted in support of the safe use of various categories of food substances. The primary duties of regulatory scientists involve administration and evaluation of technical and other safety data contained in industry submissions, such as food and color additive petitions, generally recognized as safe (GRAS) notices, and notifications for food contact substances. The regulatory scientist positions include consumer safety officers, chemists, microbiologists, pharmacologists, toxicologists and environmental scientists. These are NON-LABORATORY positions.

Salary Range: GS-9 through GS-13 is \$35,310-\$79,155 per annum, plus an excellent benefits package and flexible work schedule. Salary, benefits and levels of responsibility are commensurate with education and experience.

How to Apply: Interested applicants, current federal employees and reinstatement eligibles should visit our website at www.Usajobs.opm.gov/a9fda.htm for copies of the announcements.

Applicants who have never been permanently employed by the Federal government may apply to the following vacancy announcements: Chemist (FDA-7-0907), Biologist (FDA-7-0905), Consumer Safety Officer (FDA-7-0904), Pharmacologist (FDA-7-0906), and Microbiologist (FDA-8-0916). Copies of these announcements may be obtained by calling (301) 443-1969 and requesting the announcement by number or by visiting the above website.

Send Applications to:

**Food and Drug Administration - CFSAN/OPA/HFS-200
200 "C" Street, S.W., Room 1201
Washington, DC 20204
Attn: Brenda Finch**

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Yale UNIVERSITY

Infectious Diseases Epidemiologists

The Division of Epidemiology of Microbial Diseases in the Department of Epidemiology and Public Health at Yale University School of Medicine is seeking to fill junior and senior faculty positions in epidemiology to supplement existing expertise in the basic sciences. The successful candidates should have earned a doctoral degree (Ph.D. or equivalent) in epidemiology, or a related field, or an M.D. and have experience in epidemiological research. Candidates will be expected to teach and direct theses at the MPH, M.D. and Ph.D. levels and to establish externally funded research programs. Opportunities for assuming a leadership role in an ongoing emerging infections program exist. Rank and salary will be commensurate with experience. Closing date for applications is December 1, 2000.

Applicants should send curriculum vitae, statement of professional goals and the names and addresses of three references to:

**EMD Search Committee
c/o Michael Merson, M.D., Dean for Public Health and Chair
Department of Epidemiology and Public Health
Yale University School of Medicine
PO Box 208034
New Haven, CT 06520-8034**

Yale University is an Affirmative Action/Equal Opportunity Employer and encourages applications from qualified women and minority candidates.

Genomics Faculty Position

Memorial Sloan-Kettering Cancer Center is seeking an outstanding individual to fill a tenure-track faculty position in the area of genomics. Candidates should be applying the techniques of genomic analysis to probe fundamental biological questions relevant to oncogenesis. The successful candidate will be expected to lead a strong independent research program and will join the new Cancer Genetics Program. The faculty member will also assist in the development of a Genomics Core Laboratory and be responsible for its oversight. Memorial Sloan-Kettering provides an extraordinary opportunity for individuals interested in human/cancer genetics through both its clinical and basic science resources. Appointment at any level will be considered.

Candidates should send their CV, a description of their past research, a description of their proposed research, selected reprints, and three letters of reference to: **Genomics Faculty Search, Ms. Linda 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 lsmith@ski.mskcc.org. Inquires to either Ms. Smith or Dr. Kenneth J. Marians, Chair, Genomics Search Committee: e-mail: k-marians@ski.mskcc.org. EOE/AA



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Research Geneticist (Plants)

The U.S. Department of Agriculture, Agricultural Research Service, Plant Science Research Unit, St. Paul, MN, is recruiting a Research Plant Geneticist, GS-12/13/14, salary range \$51,233 to \$93,588 per annum. The incumbent will conduct basic and applied research on genomics, genetics, and cytogenetics of spring wheat and related species/relatives with special emphasis on disease resistance, specifically *Fusarium* head blight and rusts. The focus will be on genes and genetic mechanisms contributing to disease resistance, agronomic, and quality traits with the goal of developing enhanced germplasm. Cooperation with ARS and University of Minnesota personnel is imperative in developing a system for functional genomics related to disease resistance and quality. In addition to the basic educational requirements, applicants must demonstrate knowledge of plant pathology and skill in identifying and mapping plant genes. The scientist will be responsible for independently planning and conducting research on genetics and genomics and reporting findings in refereed journals. Incumbent also coordinates a regional testing program on hard red spring wheat. A Ph.D. is preferred. U.S. citizenship is required. For information about the research program contact: **Dr. Carroll P. Vance; telephone: 612-625-5715; email: vance004@tc.umn.edu.** This position has specific educational and experience qualifications and factors that must be addressed. In order to ensure submission of a complete application, applicants must request a copy of the vacancy announcement (#ARS-XOW-0411) by calling **Pamela Groth: 651-649-5047** or by printing it from the Internet at website: <http://www.ars.usda.gov>. Applications must be postmarked by November 20, 2000. *USDA-ARS is an Equal Opportunity Employer and Provider.*



JUNIOR SCIENTIST POSITION REPRODUCTIVE CELL BIOLOGIST

The Department of Obstetrics and Gynecology and the Department of Cell Biology and Physiology are jointly recruiting a junior scientist to expand basic research in reproductive and developmental biology in the scientifically rich environment of the Washington University School of Medicine. Successful candidates will assume a tenure track position as Assistant Professor with a dual appointment in both departments. A resource package commensurate to the position will be provided. New programs will complement the ongoing research in cancer genetics, placental biology, signal transduction systems, and cytoskeletal function. Successful candidates will be expected to obtain externally funded grants and to contribute to graduate education.

Send curriculum vitae and a one-page summary of research accomplishments and research plans to both Dr. Nelson and Dr. Stahl, co-Chairs, Reproductive Cell Biologist Search Committee: **Dr. Michael Nelson, M.D., Ph.D., Vice-Chairman, Director of Research, Obstetrics and Gynecology, 4566 Scott Avenue, St. Louis, MO 63110 USA, E-mail address: nelsondm@msnotes.wustl.edu and Philip D. Stahl, Ph.D., Head, Department of Cell Biology and Physiology, at Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110 USA, pstahl@cellbio.wustl.edu**

WUSM is an Equal Opportunity/Affirmative Action Employer.



A rapidly growing public biopharmaceuticals company located in the heart of Silicon Valley is looking for aggressive and enthusiastic professionals who can make immediate and substantial contributions and who thrive in a fast-paced environment. The employees of Hyseq are among our most valuable assets. Our employees provide tremendous energy, talent and expertise in all areas of the company. Be a part of the Hyseq culture that encourages professional and personal growth objectives. Immediate openings exist for qualified candidates interested in research on the cutting edge of biotech industry. We offer competitive salaries, benefits and significant opportunities for professional growth.

HYSEQ INC.

Director, Protein Expression

In this high profile position, you will lead and expand the nucleus of an existing team. The Protein Expression group will be responsible for rapidly expressing a large number of genes of interest for functional analysis and preclinical evaluation. As projects progress, this group will also be responsible for developing scalable expression systems to support clinical and commercial operations. Familiarity with all types of expression systems is preferred, including bacterial, insect cell / baculovirus, and particularly mammalian systems. The position requires a Ph.D. in a biological science with 8-10+ yr. of experience, preferably in industry. Excellent interpersonal skills are essential and previous managerial experience is also strongly preferred. The protein expression group will be actively interacting with the protein purification and functional analysis departments. A strong background in molecular biology is essential. Familiarity with scale up issues, large scale cell culture, fermentation, and/or protein purification is desirable, but not required.

Scientist / Sr. Scientist – Protein Expression

We are looking for an experienced individual to fill a key position in our protein expression group. As a senior member of this group, you and your support team will be responsible for expressing a variety of genes, with an emphasis on utilizing mammalian systems. The position requires a Ph.D. in a biological science with 7+ yr. of experience, preferably in industry. Experience with mammalian expression systems is required. Work will involve cloning and expressing genes of interest in transient systems to support rapid functional analysis as well as developing scalable expression systems suitable for commercialization. Experience in large scale cell culture or protein purification is a plus, but not required. Strong preference will be given to those with proven industry experience.

Sr. Scientist/Manager – Protein Purification

We are looking for an experienced scientist to work on purification of novel protein therapeutics. This individual will work as part of a team that will purify and characterize recombinant proteins produced from a variety of expression systems. The position requires a Ph.D. in biochemistry or a related field with 8-10+ years experience in purifying and characterizing proteins. Experience with multiple separation and analytical methods is essential. This individual will be responsible for purifying mg to multi-gram levels of proteins for preclinical evaluation. As a senior member of this department, strong leadership and interpersonal skills are also key. The ideal candidate will also be familiar with issues surrounding the development of a scalable process and transferring a process to manufacturing. Experience in industry and familiarity with preparing CMC sections for regulatory filings are highly desirable.

Sr. Scientist/Manager – Analytical Protein Chemistry

We are looking for an experienced scientist to work on the characterization of novel protein therapeutics. This individual will work as part of a team that will purify and characterize recombinant proteins produced from a variety of expression systems. The position requires a Ph.D. in biochemistry or a related field with 7-10+ years experience in purifying and characterizing proteins. This individual will be responsible for leading our efforts in analytical assay development with a goal of transferring these methods to a quality control group. This individual will be responsible for overseeing chemical and biological characterization of potential therapeutics. In addition to experience with multiple analytical methods, this person may also supervise staff conducting and/or developing bioassays and immunoassays. As a senior member of this department, strong leadership and excellent interpersonal skills are critical. The ideal candidate will also be familiar with formulation development. Experience in industry and familiarity with preparing CMC sections for regulatory filings are highly desirable.

Director of Preclinical Development

We are looking for an experienced individual to lead our preclinical research and development efforts. Candidate must have 8-10+ years professional experience in Pharmacology/Toxicology with at least 5 years in the pharmaceutical or biotechnology industry. A Ph.D. in Pharmacology/Toxicology or related field required; DVM preferred. The successful candidate must have experience in designing and conducting safety and efficacy studies to support drug development. Knowledge of pharmacokinetics and metabolism is a plus. This individual will lead and work with other scientists to identify appropriate models for evaluating the safety & efficacy of novel protein therapeutics. This person will be responsible for developing and building the pharmacology/toxicology function within the organization. Familiarity with drug development is strongly preferred as this individual will also be responsible for the design and implementation of toxicology and all non-clinical pharmacology studies required for INDs through registration. Working knowledge of pharmacokinetics and metabolism in animals and exposure to clinical pharmacokinetics is preferred. With planned facility expansion, this individual will also be responsible for setting up and managing an internal animal facility. Excellent interpersonal skills are essential and previous managerial experience is also strongly preferred.

Send, fax or e-mail (Doc file) resume with cover letter and salary history to: Hyseq, Inc. Attn: H.R. Dept. 670 Almanor Ave., Sunnyvale, California 94085
Fax: (408) 524-8129; E-mail: hr@sbh.com
Please indicate job title on all correspondence.

For further information on our company and for a complete listing of our current job openings, please visit our website at: www.hyseq.com no calls please. EOE

**Plant Developmental Biologist and Plant Ecologist
Miami University, Oxford, Ohio
Department of Botany**

Applications are invited for two tenure-track Assistant Professorships, beginning August 2001 on the Oxford campus, to join a broadly based department committed to educational/scholarly excellence, faculty/student diversity, and international preeminence as a comprehensive botanical program. Ph.D. in botany/closely related discipline and commitment to teacher-scholar excellence required. Postdoctoral experience is preferred. Candidates will teach introductory/advanced courses, develop a vigorous, extramurally funded research program, and mentor student research.

Plant Developmental Biologist: We seek a botanist using molecular genetic approaches to address fundamental/applied questions on plant organ, tissue, or cell development, to complement our programs in structural/developmental botany, plant molecular biology, and functional genomics. Teaching duties include an introductory course in botany/biology, upper division/graduate offerings, and participation in the Graduate Molecular Biology Program.

Plant Ecologist: We seek a plant ecologist to establish an active community or landscape level program, advise students in field-oriented research, teach an introductory non-majors course and courses in plant ecology/community sampling methods, participate in interdepartmental graduate ecology courses, and interact with a strong group of ecologists/environmental scientists across the University in curricular initiatives.

The Botany department (17 full-time/4 affiliate faculty, 36 graduate/85 undergraduate students) offers B.S./A.B. through Ph.D. degrees in Botany and an M.A.T. in Biological Science. The Oxford campus, 32 miles NW of Cincinnati, has over 16,000 students and is ranked among the top national public universities. The Turrell Herbarium, an Electron Microscopy Facility, Ecology Research Center, and Center for Bioinformatics/Functional Genomics, and HHMI grant offer support (see www.muohio.edu for additional information). Applications (curriculum vitae; teaching statement including experience, interests, and philosophy; statement of research goals; three or fewer reprints/preprints) and three reference letters should be sent to: **Dr. Roger Meinenheimer, Chair, Plant Development Search, or Dr. David Gorchov, Chair, Plant Ecology Search, Dept. of Botany, Miami University, Oxford OH 45056.** Fax (513) 529-4243. Screening begins 1 November 2000. *Miami University is an equal opportunity/affirmative action employer.*



SENIOR COMPUTATIONAL BIOLOGISTS

The National Center for Genome Resources is a non-profit research organization working at the cutting edge of bioinformatics developing tools and resources for research scientists worldwide. If you are interested in being part of a dynamic environment where biological and computer scientists are successfully collaborating, come join us at our beautiful new facility in Santa Fe, New Mexico. In your leisure time, you can enjoy hiking, biking, skiing, horseback riding, art galleries, restaurants and concerts among the many things to do in our 300+ days of sunshine surrounded by the Rocky Mountains.

We are looking for scientists experienced in designing, developing and implementing algorithms and software systems for analyzing and integrating genomic data. If you have a Ph.D. in a related field and demonstrated skills in algorithm development, a broad understanding and/or experience in bioinformatics (acquisition, storage and analysis of biological data), comprehensive knowledge of genomics, and wish to work in a team-oriented work environment, please send your resume and salary history to the following:

E-mail to: tac@ncgr.org and cc: lbs@ncgr.org
via fax to: 1-505-995-4432 or via mail to: NCGR,
2935 Rodeo Park Dr. East, Santa Fe, NM 87505

To find out more about NCGR, you may access our at
www.ncgr.org. EOE

CLINICAL RESEARCH



**THE DORIS DUKE
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is pleased to announce the fourth
award competition for the

**CLINICAL SCIENTIST
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The purpose of this award program is to help prepare and support new investigators with a MD or MD/PhD (physician-scientists) as they begin their careers as independent clinical researchers. The program is limited to the development of researchers in the area of cardiovascular diseases, cancer, AIDS, and sickle cell anemia and other blood disorders.

Clinical Scientist Development Awards are being offered to two groups of physician-scientists — junior faculty and research fellows. Junior faculty will receive \$100,000/year and fellows receive \$65,000/year.

The full
announcement
and description
of this 5-year
award can be found
at our website:
<http://ddcf.aibs.org>

Request for Proposals

Letters of Nomination
Due: December 4, 2000
Proposals Due:
January 9, 2001



**St. Jude Children's
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**POSTDOCTORAL POSITION
HEMATOPOIETIC STEM CELL BIOLOGY**

A postdoctoral position is available in the Division of Experimental Hematology at St. Jude Children's Research Hospital to study the role of ABC transporters in hematopoietic stem cells. This project will provide an excellent opportunity to apply modern molecular techniques and state-of-the-art murine genetic models to a basic problem in hematopoiesis. Our expanding campus provides a stimulating research environment, with ample core facilities for molecular biology, genomics, and transgenic/knockout technology. The candidate will work in the Thomas Research Tower, which presently houses about 300 doctoral level scientists.

Candidates who recently obtained a Ph.D. or M.D. degree and have experience in the biology of stem cells and in ABC transporters are encouraged to apply. Interested individuals should send their CV, a brief description of their research interests, and the names of three references to:

Brian Sorrentino, M.D.
Experimental Hematology
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105
www.stjude.org
EOE M/F/D/V

**Tenure-Track Investigator,
Molecular Mechanisms of Disease**

The Genetics of Development and Disease Branch, NIDDK, NIH in Bethesda, MD seeks to recruit a tenure-track scientist who will use cellular, molecular and/or genetic approaches to study molecular mechanisms of human disease. The investigator will be given resources and newly renovated laboratory space to pursue a vigorous and effective research program. The position offers unparalleled opportunities for multidisciplinary research and for interactions with a diverse group of outstanding scientists in the NIDDK and the throughout the NIH. For information about the NIDDK and the Genetics of Development and Disease Branch, see: <http://www.nidk.nih.gov>.

Candidates must have a Ph.D., M.D. or equivalent degree in the biomedical sciences, demonstrated research productivity, and capability of establishing an innovative, independent research program. Competitive salary and benefit packages are available. Applicants should send a curriculum vitae, an outline of their future research and three letters of reference to **Ms. Elizabeth Perry; Building 10, Room 9N-314; 10 CENTER DR MSC 1821; Bethesda, MD, 20832**. The closing date is **November 15, 2000**.

NIH is an Equal Opportunity Employer

Postdoctoral position available in the Laboratory of Physiologic Studies, Division of Intramural Clinical and Biological Research, National Institute on Alcohol Abuse and Alcoholism, National Institutes of Health, to study cytokine signaling involved in liver regeneration, progression of liver cirrhosis, and hepatocellular carcinoma. Major research areas include, but are not limited to, cell signaling, apoptosis, and growth regulation. Experience in molecular biology and cell biology is essential. Experience in apoptosis, oncogenesis, and signal transduction is an advantage but not required. Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience. Competitive salary will be offered based on area of expertise and research experience. Send your curriculum vitae and 3 reference letters to:

Bin Gao, M.D., Ph.D.
Acting Chief, Section on Liver
Biology, LPS, DICBR, NIAAA, NIH
12420 Parklawn Drive, Park/150
Bethesda, MD 20892-8115
Or email: bgao@mail.nih.gov

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

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Ancillary Pharmacology

Under varying degrees of supervision (based on level of experience), our Safety Assessment staff plans and conducts Ancillary/General Pharmacology studies geared toward providing critical information on how drug development candidates affect cardiovascular, renal, gastrointestinal, respiratory, and central nervous systems. We're looking to enhance our staff with a Senior Research Pharmacologist who will lead this effort as well as prepare reports and presentations that summarize Ancillary Pharmacology studies. You'll share in our success by contributing regulatory documents such as IND, NDA and WMA submissions to further potential drug candidates for drug discovery and development programs. These goals will be facilitated via your effective direction of 4-6 scientists and technical staff in the Ancillary Pharmacology group, whose activities you must monitor to ensure compliance with regulatory guidelines and requirements. To achieve maximum results, we seek scientists with a Ph.D. or equivalent degree in Pharmacology, Physiology, or Medicine with 2+ years' postdoctoral training. Born leaders are sought who can draw on substantial knowledge of both drug discovery activities and practical experience with in vivo pharmacological experimentation with large animals (e.g. dog and monkey). Since our group thrives on cooperative efforts, we'll also expect excellent writing, interpersonal, and oral presentation skills.
PAF Code: XHXMRSMKH9022

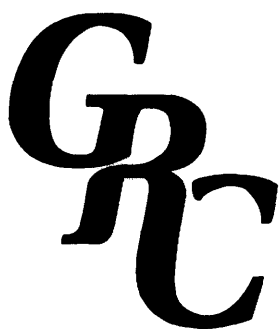
Molecular Biologist

Ready to be challenged? Our neurology group seeks a talented scientist with a keen interest in neurobiology and expertise in standard molecular biology methods (cloning, PCR, mammalian expression systems, etc.). The ideal candidate will have a BS/MS and 3+ years' experience, knowledge of protein analysis (PAGE, Western blotting), and a proven record in working both as part of a team and independently in a basic research environment. Training in 2D protein analysis and proteomics would be a distinct asset. **PAF Code: XHXMRSMKH90220**

We offer an excellent salary, a comprehensive benefits program including tuition reimbursement, and one of the best 401(k) plans in the nation, as well as opportunities for professional growth. Please send curriculum vitae with cover letter and the names of three references, indicating PAF code for position of interest, to: **Merck Positions, PO Box 92164, Los Angeles, CA 90009-2164**. E-mail: merck@resume.isearch.com. Fax: (310) 337-3393. Only candidates considered for interviews will receive responses. We are an equal opportunity employer, m/f/d/v.



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GORDON RESEARCH CONFERENCES

Conferences at the Frontiers of the Biological, Chemical and Physical Sciences

- The 2001 Winter and Spring GRC programs will appear in the October 6, 2000 issue of **SCIENCE**.
- The preliminary 2001 Summer GRC programs will appear in the November 24, 2000 issue of **SCIENCE**.

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Endowed Chair in CNS Injury Research

The Kentucky Spinal Cord Injury Research Center at the University of Louisville School of Medicine is looking for a new faculty member at the Associate or Full Professor level. The candidate's research focus should complement existing programs in CNS injury and regeneration, neural precursor cells and spinal cord motor systems. The successful applicant will be an internationally recognized leader in his/her field, with a strong history of publication, funding and scientific accomplishment. The position will have a primary appointment in the Department of Neurological Surgery at the University of Louisville School of Medicine with a joint appointment in an appropriate basic science department. The Endowed Chair represents a commitment on the part of the University of Louisville and the Kentucky Spinal Cord and Head Injury Research Trust to building a strong research program in CNS injury. Applications should be received by October 8, 2000, and should include a curriculum vitae and a summary of research accomplishments and future directions. The University of Louisville is an equal opportunity employer.

Send applications to:
Christopher B. Shields, M.D., Chairman
Department of Neurological Surgery
210 E. Gray St., Ste. 1102
Louisville, KY 40202

Position in Cognitive Neuroscience Center for Neuroscience Department of Psychology University of California, Davis

The Center for Neuroscience and the Department of Psychology at the University of California, Davis, invite applications for a Cognitive Neuroscientist at the assistant, associate or full professor level, to begin July 1, 2001. Specialization within the area of cognitive neuroscience is open, however, we are particularly interested in faculty who work on some aspect of human neurophysiology and can utilize newly established functional brain imaging facilities. Applicants are expected to demonstrate leadership in their research specialty, ability to obtain extramural funds, and ability to teach cognitive 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 at least five letters of recommendation to: **Edward G. Jones, Director, Center for Neuroscience, 1544 Newton Court, University of California, Davis, CA 95616-8659**. All materials must be received by November 30, 2000, to be assured consideration. The search will continue until this position is filled. *The University of California is an affirmative action/equal opportunity employer.*

Center for Neuroscience

University of California, Davis

CELL BIOLOGY/BIOCHEMISTRY Tenure Track Faculty Position Bowdoin College

The Biology Department and Biochemistry Interdisciplinary Program of Bowdoin College invite applications for a tenure track position in Cell Biology/Biochemistry at the Assistant or Associate Professor level beginning Fall 2001. The position is a joint appointment in Biology and Biochemistry. Teaching responsibilities, which will normally be 3 courses with labs per year, include a course in Cell Biology on a regular basis and additional courses that contribute to both the Biology and Biochemistry major programs, including courses in one's specialty. The successful applicant is expected to maintain an active research program that involves undergraduates. Postdoctoral experience preferred.

Review of applications will begin November 1, 2000. Please send a curriculum vitae, a letter that includes a description of your research interests and teaching philosophy, and the names, email addresses and phone numbers of three references to: **Patsy Dickinson, Chair, Biology Department, Cell Biology Search, 6500 College Station, Bowdoin College, Brunswick, ME 04011-8465**. For further information about the college, the department, and the program, please see our website: **www.bowdoin.edu**.

Bowdoin College is committed to Equal Opportunity through Affirmative Action. Women and minorities are encouraged to apply.

Senior Scientists

Protein Engineering Job # 252

Ambion seeks several individuals to join a group generating proteins with novel functions. Experience in the following areas a plus: Directed Evolution, Procarvotic Expression, Protein Structure-Function, or Phage Display

In situ Hybridization Job # 253

We are looking for an individual with in situ hybridization and histology experience to work on the development of new products in this area.

RNA Methodology Job # 254

We are always looking for talented individuals with experience related to any aspect of technologies related to RNA. Experience with arrays or differential display a plus.

Candidates should have a Ph.D. and postdoctoral experience, a strong publication record and an innovative and entrepreneurial spirit. Senior Scientists have considerable freedom in developing their own research programs and participate in a collegial team environment that drives the development of new ideas. They typically have a small research group, NIH small business grants and write papers and patents. We feel that Ambion's diverse and interactive R&D group is unique in the industry and has been important to our continuing success.

Manufacturing - QC

Manufacturing Development Scientist Job # 255

Ambion seeks a creative scientist who can add depth to our manufacturing group. An MS in molecular biology or related field, Ph.D. is preferred. A diverse background in RNA related techniques and the innate ability to tinker and troubleshoot is highly desirable. Previous experience in biotech manufacturing is a plus. This individual will provide leadership for our manufacturing development group and interact well with both R&D and manufacturing scientists.

Senior Production Associate Job # 251

Ambion seeks a talented scientist to lead a production group in the manufacture of products in the areas of high-throughput gene analysis, arrays, in situ hybridization and cDNA synthesis. A BS in molecular biology or related field, MS or Ph.D. preferred, and strong experience in RNA related techniques are required. This individual must have proven supervisory skills and interact well with both R&D and manufacturing scientists.

Quality Control Manager Job #256

Ambion seeks a dynamic scientist to head our Quality Control Department. All scientists with backgrounds in molecular biology, lab management and quality systems will be considered.

Postdoctoral and Research Associate positions are also available.

Ambion is a rapidly growing biotechnology company that focuses on applications related to RNA. It is located in Austin, the state capital, on the edge of the "Texas Hill Country", which provides rivers, lakes, scenic rolling hills and a comfortable climate. Austin is home to the main campus of the University of Texas and offers an exciting array of restaurants, music and cultural events. Austin is widely recognized as one of America's most livable cities and was recently listed as a "runner up" in Money Magazine's "Best Big Cities in America". See http://www.money.com/money/depts/real_estate/bestplaces/austin.html

We offer a stimulating work environment, competitive salary and benefits, 401(K) plan, employee stock option and bonus plans.
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Reply to: Ambion, Inc., 2130 Woodward St., Austin, TX 78744-1832
Ph: (512)651-0200 Fax: (512)651-0201 Email: resumes@ambion.com

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HOWARD HUGHES MEDICAL INSTITUTE

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Institute employees enjoy competitive salaries and an excellent benefits package. HHMI is an equal opportunity employer. Please visit our website at www.hhmi.org/jobs for a listing of available positions.

POSITIONS OPEN

FACULTY POSITIONS IN GENETICS Junior and Established Investigator Dartmouth Medical School

Dartmouth Medical School has launched a major initiative in genetics that includes the establishment of a Department of Genetics. Applications are invited for the first several of 12 faculty positions to be filled in the coming years. We seek outstanding individuals who will bring or establish vigorous and innovative research programs where genetic approaches play a major role and who will bring energy and insight for the creation of a first-rate environment for research and teaching. Particular interests in this search include: (1) mammalian genetics (mouse or human); individuals pursuing fundamental questions in mammalian genetics that will embrace but extend beyond the era of genomics; (2) bioinformatics: computation-based approaches to uncover underlying truths in biological systems; (3) behavioral genetics: scientists using genetics tools to identify and analyze genes governing behavior; and (4) model systems: to complement existing strengths in nematodes, bacteria, yeast, and fungi. We are particularly interested in individuals whose research programs use *Drosophila* and zebrafish.

Applicants should submit curriculum vitae, a description of research accomplishments and future objectives, and arrange to have three letters of reference sent directly to the Search Committee. Please send all materials to: **Search Committees, Department of Genetics, 74005 Rensselaer, Dartmouth Medical School, Hanover, NH 03755-3837 U.S.A.** *Dartmouth College is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of minority groups.*

The Department of Chemistry at the University of Dayton invites applications for a tenure-track faculty position at the **ASSISTANT or ASSOCIATE PROFESSOR** level for fall term 2001. A Ph.D. in organic, bioorganic or biological chemistry, or a related field is required. Candidates with postdoctoral experience, life science-related research interests that complement existing Department efforts in biochemistry and medicinal chemistry, and the potential to excel in teaching and research are especially desirable. The successful applicant will teach some combination of general, organic, and advanced chemistry courses at the undergraduate level and will develop an externally funded research program in support of initiatives in life science chemistry and undergraduate research. Advanced-rank applicants should demonstrate an active record of publication and funded research. Deadline for receipt of applications is December 1, 2000. To apply, submit curriculum vitae, undergraduate/graduate transcripts, descriptions of teaching philosophy and research plans including equipment needs, and arrange to have three letters of recommendation sent to: **Dr. Gary W. Morrow, Department of Chemistry, University of Dayton, Dayton, OH 45469-2357.** For more information, visit **website: www.udayton.edu/~chem**. *The University of Dayton is an Equal Opportunity/Affirmative Action Employer. Women, minorities, individuals with disabilities, and veterans are strongly encouraged to apply. The University of Dayton is firmly committed to the principle of diversity.*

Truckee Meadows Community College in Reno, Nevada, is seeking an innovative educational leader to serve as **DEAN OF INSTRUCTION** with responsibility for mathematics, health science, life science, and physical science. Applicants should have a Master's from a regionally accredited institution, four years of teaching experience at the community college or higher level, and four years of successful administrative experience at the department chairperson level or higher. Send a letter of application indicating the position title and position number, résumé, unofficial transcripts (official required at time of hire), and contact information for three current references to: **Truckee Meadows Community College, Director of Human Resources, 7000 Dandini Boulevard, Reno, NV 89512-3999.** Application deadline is October 27, 2000, at 5 p.m. A complete announcement for this opening is available on the **website: <http://www.tmc.edu/hrs>**.

POSITIONS OPEN



NEUROBIOLOGY TENURE-TRACK FACULTY POSITIONS UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE

The Department of Anatomy and Neurobiology is recruiting new tenure-track/tenured faculty in neuroscience. Appointments will be made at **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** ranks.

We are especially seeking applications from synaptic and cellular physiologists, cellular and molecular developmental neurobiologists, and systems neuroscientists.

Our facilities include state-of-the-art core laboratories in molecular neurobiology, imaging, neurophysiology, and neuroanatomy. We offer an outstanding intellectual and collaborative environment with highly competitive salary and start-up packages. The department has NIH Program Project and Training Grants. Departmental faculty are members of the interdisciplinary Program in Neuroscience (**website: <http://neuroscience.umaryland.edu>**).

Successful candidates must have a Ph.D. or equivalent, evidence of productivity and innovation, and the potential to establish an independently funded research program. For best consideration, applications should be received before October 30, 2000. Candidates should submit detailed curriculum vitae, a statement of research interests and goals, and the names and addresses of three to five references. Electronic submission of all application materials (including supporting letters), as Microsoft Word file attachments to **e-mail: facsearch@umaryland.edu** is preferred. Paper applications may be mailed to:

**Dr. Linda J. Richards, Ph.D.
Chair, Faculty Search Committee
Department of Anatomy and Neurobiology
University of Maryland School of Medicine
685 West Baltimore Street
Baltimore, MD 21201
Website: <http://neurobiology.umaryland.edu>**

The University of Maryland is an Affirmative Action/Equal Opportunity Employer. We are eager to diversify our faculty. Women and minorities are encouraged to apply.

The Department of Pharmaceutical Sciences is seeking a qualified candidate with expertise in the area of X-ray crystallography for a full-time, tenured or tenure-track position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level beginning in summer 2001. The position will complement our rapidly growing research and teaching programs at the Ph.D., Pharm.D., and Pharm.D./Ph.D. levels. Applicants should have a Ph.D. in an appropriate biological or chemical science with a minimum of two years of postdoctoral experience. Research interests should be in the area of biomolecular crystallography, with the potential for interactions with current research programs in cellular and molecular biology, mechanistic enzymology, and drug design. Successful applicants are expected to have or establish an independent and innovative research program and contribute to teaching at both the professional and graduate levels. Review of applications will begin in October and will continue until the position is filled. Please submit a letter of intent, curriculum vitae, statement of research and teaching objectives, and addresses of at least three references to:

**Dr. A. D. MacKerell, Jr., Chair
Crystallography Search Committee
Department of Pharmaceutical Sciences
University of Maryland School of Pharmacy
20 North Pine Street
Baltimore, MD 21201-1180**

For additional information about the Department, see our **website: www.pharmacy.umaryland.edu**.

The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT

Environment Sciences Institute
Florida Agricultural and Mechanical University

Qualifications: The successful applicant will be required to develop a vigorous, externally funded research program well integrated into our graduate and undergraduate programs. The preferred candidate will have expertise in environmental and restoration remediation. Preference will be given to individuals with experience in innovative methodologies for remediation of chemical, biological radioactive contamination and the modeling of contaminant behavior in the environment. The minimum qualification for the position is the Ph.D. degree in environmental science; biology; chemistry; or a related physical, Earth, or engineering science. Nine-month, tenure-track appointment. Applicants should send curriculum vitae and the names and addresses of three references to: **Ms. Carrie Gavin, Director, Equal Opportunity Programs, Modular Unit Number 5 Wailes Street, Florida A&M University, Tallahassee, FL 32307.** Full-time equivalent: 100 percent, nine months. Salary class: \$55,000-\$61,800. Position number: 18536. Application deadline: September 30, 2000.

ASSISTANT OR ASSOCIATE PROFESSOR ENVIRONMENTAL BIOTECHNOLOGY

Qualifications: The successful applicants will be required to develop a vigorous, externally funded research program well integrated into our graduate and undergraduate programs. The preferred candidate will have expertise in the application of biomolecular methods to enhance the understanding of the effects of environmental contaminants on human and/or ecological systems. The minimum qualification for the position is the Ph.D. degree in molecular biology, biochemistry, immunology, microbiology, or a related field. Nine-month, tenure-track appointment. Applicants should send curriculum vitae and the names and addresses of three references to: **Ms. Carrie Gavin, Director, Equal Opportunity Programs, Modular Unit Number 5 Wailes Street, Florida A&M University, Tallahassee, FL 32307.** Full-time equivalent: 100 percent, nine months. Salary class: \$55,000-\$70,000. Position number: 17516. Application deadline: September 30, 2000.

GENETICS AND WILDLIFE BIOLOGY POSITIONS

The Department of Biology invites applications from broadly trained individuals for **ASSISTANT PROFESSOR** tenure-track positions in (1) genetics and (2) wildlife biology beginning fall 2001. Candidates are expected to have a Ph.D. in the biological sciences, excellent verbal and written communication skills, and demonstrate a strong commitment to teaching and research. Postdoctoral experience preferred. Duties include undergraduate and graduate (M.S.) teaching, research, submitting external funding proposals, and service. Departmental information is available at **website: www.cst.cmich.edu/units/bio**. (1) Genetics. Teaching responsibilities include genetics, cell biology, and specialty course(s). Preference may be given to applicants who can teach biological statistics or electron microscopy. (2) Wildlife biology. Teaching responsibilities include conservation of natural resources, wildlife conservation, and advanced course(s) in wildlife biology. Preference may be given to applicants who can teach biological statistics, environmental contaminants, or wetlands ecology. For both positions, special consideration will be given to candidates who are willing to contribute to the Department's introductory program. Submit a letter of application, résumé, copies of undergraduate and graduate transcripts, statement of teaching philosophy and statement of research interests, and three letters of recommendation to: **Genetics or Wildlife Biologist Search Committee, Department of Biology, Central Michigan University, Mt. Pleasant, MI 48859.** Review of applications will begin October 15, 2000, and continue until positions are filled. *Central Michigan University is an Equal Opportunity/Affirmative Action Employer.*

Postdoctoral Fellowships

in Molecular and Cell Biology at the NIH

Postdoctoral Fellowships are available in the Genetics and Biochemistry Branch, NIDDK, NIH. The Branch is similar to a small academic department and has excellent laboratory facilities. The intramural program of the NIH offers an outstanding research environment. The Branch is located on the main intramural campus of the NIH in Bethesda, Maryland, a 20 minute ride from Washington, D.C. Applications are invited from individuals of the highest caliber with Ph.D., M.D., or M.D., Ph.D. degrees. Physicians may participate in either the NIH Interinstitute Endocrine or the NIH Interinstitute Medical Genetics Training Programs. Current research interests of the staff include:

- Membrane protein biogenesis/protein secretion. We use a combination of biochemical, genetic, and cell biological approaches to study 1) the membrane insertion, assembly and trafficking of integral membrane proteins in eukaryotic cells and bacteria (Cell (1997) 88: 187 and JBC (1999) 274: 8993) and 2) the mechanism of secretion of proteins such as B-FGF and IL-1 that lack conventional signal sequences. (Harris Bernstein)

- Biochemistry and molecular biology of homologous recombination in eukaryotes and prokaryotes. Current interests include meiosis (Genomics (1999) 61: 156), DNA damage and repair, the structure of recombination proteins and their reaction intermediates (JMB (2000) 299: 629), and novel approaches to gene therapy (including the use of small molecules that promote gene targeting and silencing, such as miniRecAs (Science (1996) 272: 868)). (Dan Camerini-Otero)

- Molecular mechanisms of DNA repair and homologous recombination. Current efforts focus on structure-function sides of protein-DNA complexes involved in DNA repair and homologous recombination (JBC (1999) 274: 23673; Nature, 2000, in press) and modulation of chromatin structure during repair and recombination (MolCell (1998) 2: 373). (Peggy Hsieh)

- Molecular mechanisms of orphan nuclear transcription factors. Molecular investigations include: transgenic and gene targeted mouse models, yeast 2-hybrid screening and gene expression profiling. Applicants should have a strong background in molecular and cell biology. (MCN (1998) 11: 36; Neuroscience (1999) 93: 631; MCB (1999) 19: 6833) (Vera Nikodem)

- The molecular mechanisms facilitating RNA metabolism, specifically the processing events within rRNA. We are identifying Cis-acting elements (RNA (1998) 4: 1610) that are essential for accurate processing of rRNA in yeast. In vivo and in vitro biochemical assays help identify and characterize trans-acting factors essential for processing at specific sites (MCB (1997) 17: 3702; JBC (1999) 274: 35914). Identifying the RNA:RNA and RNA:protein interactions facilitating early steps of rRNA processing will help elucidate the mechanisms regulating ribosome biogenesis in eucaryotes. (Brenda Peculis)

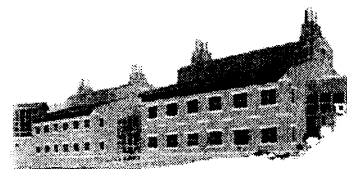
Interested candidates should send a letter stating their interests, their curriculum vitae and list of publications, and arrange to have letters from three references sent to one of the investigators or to Dr. R. Daniel Camerini-Otero Chief, Genetics and Biochemistry Branch at:

Genetics and Biochemistry Branch
10 Center Drive, MSC 1810
Building 10, Room 9D-20
National Institutes of Health
Bethesda, MD 20892



NIH is an
Equal Opportunity Employer

The Jackson Laboratory



The Jackson Laboratory is an independent, not-for-profit mammalian genetics research institution, a major resource for the research community and a center for training in mammalian genetics. Designated a Basic Cancer Center by the National Cancer Institute, the Laboratory offers its more than 30 principal investigators the opportunity to conduct basic research in an interactive environment with excellent collaborative opportunities, unparalleled mouse and genetic resources, and an outstanding shared scientific services program.

STAFF SCIENTISTS

The Jackson Laboratory is currently recruiting faculty members in Cancer-genetics, Developmental-genetics, Neuro-genetics and Bioinformatics/Computational Biology. The successful applicant should have a Ph.D., M.D., or D.V.M., Postdoctoral Training, a record of research excellence, and be able to initiate a competitive independent research program. **Applicants for Staff positions should cite ad 5-09 and send a curriculum vitae, statement of research interests and the names of at least three references to The Director's Office: The Jackson Laboratory, 600 Main Street, Bar Harbor, Maine 04609 or e-mail: rsp@jax.org.**

THE LABORATORY OFFERS:

- **Excellent Collaborative Opportunities** - An interactive staff with ongoing research in Cancer, Developmental Biology and Aging, Genomics, Hematology and Immunology, Metabolic Diseases, Neurobiology and Sensory Deficits and Bioinformatics/Computational Biology.
- **Unparalleled Mouse and Genetic Resources** - Over 2,000 genetically defined JAX mouse strains are available, DNA Mapping Panel Resource, Cytogenetic Models Resource, Genetic Information Resource, Mouse DNA Resource, Mouse Genome Database and Gene Expression Information Resource.
- **Outstanding Shared Scientific Services** - Equipped with state-of-the-art technology, staffed by personnel trained in Biological Imaging, Cell Biology, Flow Cytometry, Microchemistry (including DNA sequencing, allele typing, expression profiling and protein services), Transgenic and Targeted Mutant Preparation, Multimedia Services and Research Computing.
- **Major Meeting Center** - The Jackson Laboratory hosts a series of conferences featuring the mouse as a model for human disease, and several courses, most notably, the annual Short Course in Medical and Experimental Mammalian Genetics.
- **Grants Management Support** - Our research is supported largely by Federal grants and/or private funding to individual principal investigators. A highly qualified staff is available to aid in grant preparation and submission.

POSTDOCTORAL TRAINING

The Jackson Laboratory has a coordinated training program that provides broad experience in the skills necessary to fulfill the emerging and growing needs of academic and industrial programs in mammalian genetics and genomics. In addition to carrying on independent research projects and improving their oral and written presentation skills, participants gain wider experience in the principles and practices of mammalian genetics, analysis of complex traits, genomics and positional cloning, bioinformatics, and the essentials of animal husbandry through a series of on-site courses, workshops, seminars and laboratory programs. **Applicants for Postdoctoral Training positions should cite ad PD-09 and send a curriculum vitae, statement of research interests and the names of at least three references to The Training Office: The Jackson Laboratory, 600 Main Street, Bar Harbor, Maine 04609 or e-mail: sbs@jax.org**

THE JACKSON LABORATORY is one of the world's foremost centers for mammalian genetics research. Located in Bar Harbor, Maine, the lab is adjacent to Acadia National Park. Mountains, oceans, forest, lakes, and trails are all within walking distance.

The Jackson Laboratory is an EOE/AA Employer.

<http://www.jax.org>

POSITIONS OPEN

CHAIR DEPARTMENT OF PHARMACEUTICAL SCIENCES College of Pharmacy Medical University of South Carolina

The College of Pharmacy of the Medical University of South Carolina invites applications and nominations for the position of **PROFESSOR** and Chair of Pharmaceutical Sciences. Candidates should have a Ph.D. or equivalent in a biomedical field related to pharmaceutical sciences and a strong record of externally funded, peer reviewed research and publications. Extensive experience in mentoring junior faculty to succeed in research and teaching is also required. The successful candidate will provide dynamic leadership in developing the Department's research and its graduate and professional teaching programs in the context of a rapidly expanding medical university. Applicants whose research relates to the following areas would be especially attractive: genetics, neuroscience, oncology, or structural biology/chemistry. The Department currently has 13 faculty members and expects to fill three to five additional tenure-track faculty positions over the next two years. New and refurbished laboratory space is available, and a highly competitive recruitment package will be provided. Medical University of South Carolina, located in the beautiful oceanside historic district of Charleston, has seen a 75% increase in competitive national research funding in the last five years to over \$100 million per year. Please send letter of application, curriculum vitae, and the names and addresses of three references to: **Dr. Thomas A. Dix, Search Committee Chair, Department of Pharmaceutical Sciences, College of Pharmacy, Medical University of South Carolina, 280 Calhoun Street, P.O. Box 250140, Charleston, SC 29425-2303.** MUSC is an Equal Opportunity Employer.

Iowa State University invites applications for several tenure-track faculty positions in chemistry. Areas of interest include but are not limited to the following topics: analytical chemistry; organic chemistry; and interdisciplinary topics, particularly those at the boundary of cell biology and chemistry. Review of applications will begin October 20, 2000. Appointment commences on August 16, 2001. Applicants in suitable research areas may have the opportunity to work within the newly constructed Roy J. Carver Laboratory for Ultra High Resolution Biological Microscopy. A competitive salary, excellent research facilities, and generous start-up package are available. The successful candidate will be expected to establish an internationally recognized research program and to contribute strongly to graduate and undergraduate education. Applications should include current curriculum vitae plus list of publications and a brief statement of research interests (three pages or less). Arrange to have three letters of reference sent to: **Chair of the Search Committee, Department of Chemistry, Iowa State University, Ames, IA 50011.** Iowa State University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.

ASSISTANT PROFESSORSHIPS IN INORGANIC, ORGANIC, AND PHYSICAL CHEMISTRY Department of Chemistry and Chemical Biology Harvard University

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: **Professor James Anderson, Chairman, Department of Chemistry and Chemical Biology, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902.** Harvard University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and minority group members.

POSITIONS OPEN

CORNELL UNIVERSITY Weill Medical College

TENURE-TRACK POSITIONS IN GENETIC MEDICINE

As part of a significant enhancement of its basic biomedical science research programs and laboratory facilities, Weill Medical College of Cornell University (formerly known as Cornell University Medical College) is undertaking a major program initiative in the area of genetic medicine and is seeking to recruit **TENURE-TRACK FACULTY** at all levels. We are especially interested in candidates with research interests related to pharmacogenetics, the molecular genetics of cancer, the functional analysis of genes, the study of polygenic disease, genome scanning, and chip technology. Exceptional candidates in other related/appropriate fields will also be considered. Candidates for junior positions should demonstrate the potential for establishing a vigorous independent research program, and candidates for senior positions should have an outstanding record of productivity. Candidates should have Ph.D. or M.D. degrees.

Recruited faculty will receive generous start-up support. Candidates may participate in the Graduate School of Medical Sciences program, which includes faculty from the Weill Medical College and the Sloan-Kettering Institute. Applications should include curriculum vitae, statement of research interests, and three letters of recommendation. Applications should be sent to: **Bernadette M. Mosellie, Genetic Medicine Recruitment Committee, Box Number 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.** Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.

The University of Illinois at Chicago has a tenure-track opening in analytical or bioanalytical chemistry beginning fall 2001 at the **ASSISTANT PROFESSOR** level. The successful candidate will have a Ph.D. and at least one year of postdoctoral experience in chemistry, biochemistry, or biophysics. The successful candidate will be expected to carry out a full and vigorous program of innovative research and to contribute to the teaching of graduate and undergraduate students. Excellence in past research accomplishments and outstanding future potential in research and teaching is the prime search criterion. Applicants in all areas of analytical and bioanalytical chemistry will be considered, but an experimentalist with a biochemical application is preferred. To ensure full consideration, applications including a résumé, list of publication, statement of research plans, and three letters of recommendation should be mailed by November 13, 2000, to: **Professor Luke Hanley, Chair of Analytical Search, Department of Chemistry (M/C 111), University of Illinois at Chicago, 845 West Taylor Street, 4500 SES, Chicago, IL 60607-7061.** For further information, see website: www.chem.uic.edu or e-mail: lhlanley@uic.edu. University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN MICROBIOLOGY

Western University of Health Sciences invites applications for a tenure-track position in microbiology at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level beginning fall 2001. A Ph.D. is required. The candidate is expected to teach medical microbiology to first- and second-year osteopathic medical students. Major emphasis is on teaching and service to the University, but research is encouraged.

Applicants should submit curriculum vitae, transcripts, three letters of recommendation, and a statement of teaching philosophy and career objectives no later than December 1, 2000, to: **Dr. Jeffrey Felton, Western University of Health Sciences, College of Osteopathic Medicine of the Pacific, 309 East Second Street, Pomona, CA 91766.** Western University of Health Sciences is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSORS: The Department of Physiology invites applications from outstanding Scientists with Ph.D., M.D., or equivalent degrees for three tenure-track Assistant Professor positions. Of particular interest are candidates who will develop independent research programs in integrative biology using genetic engineering approaches to study physiological process 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 University of Texas Southwestern faculty includes four Nobel Prize winners and 11 members of the National Academy of Sciences and supports more than 1,900 research projects annually 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.** An Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF CALIFORNIA SAN DIEGO SCHOOL OF MEDICINE DEPARTMENT OF NEUROSCIENCES

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 research expertise include but are not limited to mammalian neurogenetics, neurodevelopment, or neuronal cell death. The candidate's experience will dictate the level of appointment. Applications will be reviewed beginning November 1, 2000, 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, University of California San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0624.** The University of California is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF BIOLOGY CHAIR

Tennessee Technological University seeks a Chair for the Department of Biology. This position at the level of **FULL PROFESSOR** with tenure requires a Ph.D. in a biological science or wildlife/fisheries sciences. Candidates must have a minimum of five years of full-time teaching experience, a record of extramural funding, refereed publications, evidence of professional service, excellent communication and interpersonal skills, and evidence of managerial skills. The ability to lead a multidisciplinary department effectively is required.

For a complete description, see website: <http://www2.tntech.edu/jobs>. Applicants should send a letter of intent including a résumé, graduate transcripts, a TTU application, and three reference letters (at least one of which must address teaching qualities) to: **Dr. P. Campana, Search Committee Chair, Box 5061, Tennessee Technological University, Cookeville, TN 38505.** Inquiries may also be sent to e-mail: pcampana@tntech.edu. Screening will begin November 1, 2000, and continue until the position is filled. Affirmative Action/Equal Employment Opportunity.



Assistant/ Associate Professor Virology

As part of an ongoing expansion in the basic sciences, Creighton University School of Medicine's Department of Medical Microbiology and Immunology invites applications for a tenure-track position in basic Virology. The appointee will be expected to conduct a vigorous independent research program, and to have an interest and aptitude for teaching graduate students as well as medical, dental, and other allied health profession students. Laboratory space with equipment, start-up funding, and ongoing support will be available. Applicants should have the following qualifications: Ph.D., M.D., or M.D./Ph.D. degrees, postdoctoral training and experience, evidence of significant research accomplishments and scholarly promise. Applicants should send a curriculum vitae, a brief summary of their research plans and teaching interests, and arrange for three letters of recommendation to be sent to: **Roderick Nairn, Ph.D., Professor & Chair, Department of Medical Microbiology and Immunology, Creighton University, 2500 California Plaza, Omaha, NE 68178.**

Applications will be screened immediately and will continue to be accepted until the position is filled.

Creighton University is an Affirmative Action/Equal Opportunity Employer.



ASSISTANT PROFESSOR IN MOLECULAR BIOLOGY

The Partners Department of Orthopaedic Surgery based at the Brigham and Women's and Massachusetts General Hospitals is seeking qualified candidates for a position at the Assistant Professor level at Harvard Medical School. The incumbent will be part of the Center for Molecular Orthopaedics in a laboratory based at the Massachusetts General Hospital. Candidates should have a doctoral degree, suitable Post-Doctoral experience and a track record of productive, independent, laboratory-based research in the application of molecular approaches to the study orthopaedic problems. Relevant areas include, but are not restricted to, genomics, gene therapy, regulation of gene expression, signal transduction and the control of development, morphogenesis and tissue repair. The successful candidate will have demonstrated a strong history of extramural funding and the ability to establish and lead a productive laboratory, yet be able to collaborate effectively with other members of this interdisciplinary Center. Qualified applicants should forward a comprehensive curriculum vitae to: **James H. Herndon, M.D., Chairman, Partners Department of Orthopaedic Surgery, Massachusetts General Hospital, 624 Gray Bigelow, 55 Fruit Street, Boston, Massachusetts 02114.**

SENIOR TECHNICAL RESEARCH ASSISTANT

The Partners Department of Orthopaedic Surgery is seeking a senior technician to work in the Center for Molecular Orthopaedics. The incumbent will be the key technician involved in the scientific establishment, expansion and maintenance of the new Center. A major interest of the Center is the development of gene therapies for arthritis and other conditions of the musculoskeletal system. A strong background in cell culture and molecular biology techniques is required. Experience in constructing and growing viral gene therapy vectors would be helpful. Expertise in histology and immunohistochemistry would also be an advantage. Some animal work will be required. The successful candidate must be able to work independently with a high degree of accuracy and be able to solve day-to-day technical/scientific problems. Accurate record keeping and the ability to write effective technical reports are essential. As the Center expands, some supervisory duties will become necessary. Candidates must have a BS or MS in a relevant biological discipline with 3-5 years of directly related experience. Qualified applicants should forward their resumes to: **Christopher Evans, Ph.D., Director, Center for Molecular Orthopaedics, Brigham and Women's Hospital, 221 Longwood Avenue, Boston, Massachusetts 02115.**



The Brigham and Women's Hospital and Massachusetts General Hospital and Partners Healthcare System are equal opportunity employers. Women and minorities are encouraged to apply.

MDS Panlabs, a division of MDS Pharmaceutical Services, is a leading contract research services organization located on Seattle's East Side, providing R&D services to the pharmaceutical and biotechnology communities. **We have an immediate employment opportunity in our Discovery Division for a:**

Senior Scientist Drug Metabolism (Position # 00-28)

This challenging position is immediately available for a Ph.D. Scientist to develop and manage an *in vitro* metabolism screening program. The successful candidate will have demonstrated experience in high throughput metabolic screens with strong analytical skills in LC-MS/MS and HPLC. Must have at least 2-3 years industrial experience in methods development, assay validation and robotics with a solid understanding of the role of metabolism in the drug development process.

MDS Panlabs and MDS Pharmaceutical Services offer comprehensive *in vitro* metabolism services ranging from lead selection in discovery (MDS Panlabs, Bothell, WA) to detailed mechanistic studies in development (MDS-Phoenix, Montreal, Canada). This position will focus on discovery metabolic screens, but will also be expected to collaborate with the development group.

MDS Panlabs is an equal opportunity employer. We offer competitive salary and benefit packages. Please submit your resume (be sure to include the position #) to: **MDS Panlabs, Attn: Human Resources #00-28, 11804 North Creek Parkway South, Bothell, WA 98011, FAX: (425) 487-3787, Email: employment@panlabs.com (Microsoft WORD attachment)**

Courant Institute of Mathematical Sciences Center for Atmosphere-Ocean Studies (CAOS)

The Courant Institute of Mathematical Sciences at New York University has recently established the Center for Atmosphere-Ocean Studies (CAOS) in order to expand its traditional strengths in applied mathematics and computational science into the area of global environmental science.

Research activities carried out by members of the Center focus on the development and application of mathematical and computational methodologies aimed at increasing understanding of key dynamical processes within the global climate system. Tools used include a hierarchy of climate models ranging from the simple up to those of the general circulation. Analysis vehicles such as stochastic differential equations and adjoint versions of the climate models are also widely deployed.

As part of an expanding research program within the Center, several postdoctoral fellowships have recently been created. Applicants possessing a background in atmospheric science, physical oceanography, and applied mathematics are currently being sought for the following three positions:

Ice-Ocean Modeling: This position will be under the supervision of **Prof. D. Holland**.

Analysis of ENSO Predictability: This position will be under the supervision of **Prof. R. Kleeman**.

Tropical Atlantic Climate Variability and Predictability: This will also be under the supervision of **Prof. R. Kleeman**.

These positions are available for up to a three-year period, subject to annual performance review. An attractive salary and benefits package is offered. Applications will be received and reviewed until all positions are filled.

The Center has also recently established a Ph.D. program in Atmosphere-Ocean Studies. A number of fellowships offering full support over a four-year period are available to highly qualified applicants. Students are generally expected to follow an initial two-year coursework program and, for the final two years, complete a research project under faculty supervision. The first students to enter this program are expected during the fall of 2001, and interested students should lodge applications by December 15, 2000.

Individuals interested in either postdoctoral or graduate student positions are encouraged to contact either Prof. R. Kleeman (212-998-3233, kleeman@cims.nyu.edu) or Prof. D. Holland (212-998-3245, holland@cims.nyu.edu). Further information about the Center and the positions offered may be found at URL <http://math.nyu.edu/caos/>.

NYU is an Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

POSITION IN FISHERIES BIOLOGY

University of Alberta: The Department of Biological Sciences in the Faculty of Science is a broadly based biology department with strong research groups in ecology and environmental biology. We invite applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in freshwater fisheries biology. Applicants should have a broad range of research expertise addressing questions of fundamental biological importance, including human impacts, and have outstanding potential for excellence in teaching. The research of our 75 faculty members and 260 graduate students is supported by excellent facilities including extensive aquatic biology and chemistry facilities, a molecular biology service unit, and a fully equipped microscopy unit. For additional information about the Department, see **website: <http://www.biology.ualberta.ca/>**. 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: December 15, 2000. This appointment will be made under the auspices of the Canada Research Chairs Program. The effective date of employment will be July 1, 2001. 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. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered.*

Georgetown University: The Department of Chemistry at Georgetown University invites applications to fill tenure-track faculty positions at the **ASSISTANT PROFESSOR** level in analytical chemistry and biochemistry to begin in fall 2001. The research fields are open but should complement those of our current faculty. Candidates must have a Ph.D. degree in chemistry or closely related field; postdoctoral experience is also desirable. Development of an internationally recognized program of research as well as excellent teaching at the undergraduate and graduate levels is expected. Please send curriculum vitae and a concise description of research plans and arrange for three letters of recommendation to be sent. All application materials should be sent to: **Faculty Search Committee/Analytical Chemistry or Biochemistry, Department of Chemistry SC, Georgetown University, Box 571227, Washington, DC 20057-1227. Website: <http://www.georgetown.edu/departments/chemistry/>**. To guarantee full consideration, applications should be complete before November 30, 2000. *Georgetown University is an Equal Opportunity/Affirmative Action Employer; applications from qualified women and minority candidates are encouraged.*

UNIVERSITY OF ILLINOIS

Bioinformatics/Biostatistics: **TENURE-TRACK ASSISTANT/TENURED ASSOCIATE PROFESSOR** beginning August 2001. Requires Ph.D. in statistics, biostatistics, computational biology, or related field and potential for outstanding teaching and research. Associate Professor requires national and international recognition. Possible affiliations with NCSA, Beckman Institute, and Post-Genomics Institute. Curriculum vitae, three reference letters, transcripts to: **Douglas Simpson, Department of Statistics, 725 South Wright Street, Champaign, IL 61820. Website: www.stat.uiuc.edu/jobs**.

University of Illinois is an Affirmative Action/Equal Employment Opportunity Employer.

POSITIONS OPEN

FACULTY POSITIONS IN BIOORGANIC AND BIOLOGICAL CHEMISTRY

Department of Chemistry
University of Pennsylvania

As part of a continuing development program, the Department of Chemistry at the University of Pennsylvania plans to make two faculty appointments in the areas of bioorganic and biological chemistry. The appointment in the bioorganic area will be at the senior level while the biological appointment 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 **ASSISTANT PROFESSOR** level should submit materials, including three reference letters, by October 31, 2000. Consideration of the applications starts immediately. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION MOLECULAR AND CELLULAR PHARMACOLOGY School of Medicine University of Miami

The Department of Molecular and Cellular Pharmacology at the University of Miami School of Medicine is seeking applications for a **TENURE-TRACK FACULTY POSITION** (rank open). The position will be available in 2001; rank and salary will be commensurate with experience. Excellent laboratory space and start-up funds are available. Candidates must have a Ph.D. and/or M.D. degree and have an established record of research excellence. Applicants from all areas of molecular/cellular biology and biomedical research are welcome. The new faculty member will complement existing research efforts in the Department, which include regulation of cardiac and skeletal muscle function, ion channels, receptors and signal transduction, function and development of the nervous system, and steroid hormone action.

Applicants should send curriculum vitae, description of current and future research interests, and the names and addresses of three references to: **Dr. James D. Potter, Chairman, Department of Molecular and Cellular Pharmacology, University of Miami School of Medicine, P.O. Box 016189, Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR: eukaryotic genetic control. The School of Biological Sciences invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. Qualifications include at least two years of postdoctoral experience. Preference will be given to candidates with expertise in the study of genetic control of metabolic regulation in any organism model except warm-blooded vertebrates. Bioinformatics expertise highly desirable. The successful candidate is expected to develop an independent, extramurally funded research program in this field and to participate in teaching at the graduate and undergraduate levels in courses adopted by the School.

We offer competitive salary and start-up packages as well as state-of-the-art facilities (see **website: <http://sgi.bls.umkc.edu>**). Applications for this position are due by November 3, 2000, but will be considered until the position is filled. Send curriculum vitae, statement of future research, and three letters of recommendation to: **Search Committee, Position EGC, School of Biological Sciences, University of Missouri-Kansas City, 5007 Rockhill Road, Room 114 BSB, Kansas City, MO 64110. An Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

FACULTY POSITION GENE EXPRESSION

The Department of Biological Sciences at the University of Pittsburgh invites applications for one full-time tenure-track faculty appointment in the area of gene expression to begin September 2001 pending budgetary approval. This appointment is expected to be made at the **ASSISTANT PROFESSOR** level, but experienced candidates with outstanding records will be considered for appointment at higher ranks. Applicants with interests in transcriptional control and chromatin function are especially encouraged to apply. The successful candidate must have a Ph.D. and extensive postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. In order to ensure full consideration, applications should be received by November 15, 2000. Applicants should send curriculum vitae along with a summary of research interests and goals and arrange to have at least three letters of reference sent to:

Gene Expression Search Committee
Department of Biological Sciences
University of Pittsburgh
Pittsburgh, PA 15260

Telephone: 412-624-4266. Further information on the Department of Biological Sciences is available at **website: <http://www.pitt.edu/~biology>**. *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer. Women and members of underrepresented minority groups are especially encouraged to apply.*

CONSERVATION BIOLOGY

The School of Biological Sciences invites applications for a tenure-track position in conservation biology at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level to start fall 2001. We seek applications from plant and animal Biologists using field experimental approaches in any area of conservation biology. We especially encourage applicants whose research includes community or ecosystem components. The successful candidate will be expected to develop a vigorous, externally funded research program and teach undergraduates and graduate students. Undergraduate teaching will include responsibility for introductory biology for nonmajors students (for further information, contact e-mail: **verrell@wsu.edu**). A Ph.D. is required by the start date. Postdoctoral and teaching experience and success in securing grant support are desired. Letter of application, curriculum vitae, summaries of research and teaching interests and experience, and details of three references (including e-mail addresses) should be sent to: **Paul Verrell, Chair, Conservation Biology Search Committee, School of Biological Sciences, Washington State University, Pullman, WA 99164-4236**. Review of applications will begin October 31, 2000. *Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. Members of protected groups are encouraged to apply.*

RESEARCH TECHNOLOGIST (HISTOPATHOLOGIST): performs histological and molecular analyses of tumor tissues. Studies tumor tissues to provide data in an effort to delineate cause and progress of cancer cell lines. Prepares tissue sections for culture of tumor cell lines and dissection of tumor tissue. Analyzes DNA methylation levels and patterns in cancer cell lines and tumor tissues. Examines chromosome stability and expression of tumor suppressor genes in cancer cells. Establishes transgenic mouse models for breast cancer and colon cancer. Monitors health and tumor growth in transgenic mice. Requirements include a Ph.D. or an M.D. or equivalent in mammalian embryology, pathology, or cancer biology or related field with at least two years of research experience in clinical and experimental cancer biology. *Applicants must have unrestricted authorization to work in the United States.* Salary: \$28,454.40 to \$38,230 per year. Forty hours per week. Respond with two copies of résumé to: **Case Number 20001771, Labor Exchange Office, 19 Staniford Street, First Floor, Boston, MA 02114.**

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▼ Sr Research Assistant-Red Blood Cells Group

Perform experimental work related to characterization of the quality of Inactive-treated red blood cells. Will operate state of the art hematology equipment (Haemonetics 215 cell processors, Coulter counters, CO-oximeters, Flame photometers, Osmometer), log/maintain the sample inventory, and supervise a junior associate. Requires a BS/MS in Biology, Biochemistry or other science; 1-3 years experience in a laboratory or Blood Bank, familiarity with above equipment, and experience writing assays and SOP's

▼ Senior Research Assistant-Viral Assays

Conduct various assays in support of research department initiatives, including Red Cells, SD Plasma, and Universal Plasma. Position involves designing and executing viral assays, analyzing/interpreting results, and preparing related technical reports. Must have a BS in a Biological Science, 2-5 years of work experience in virus research/assay development encompassing HIV and Hepatitis, and knowledge of cGLP's. Biochemistry and cell biology experience an asset.

▼ Sr Scientist - Red Blood Cells Group

Perform experimental and lab management work related to characterization of the quality of pathogen inactivated red blood cells and supervise the group of 2-4 Research Assistants while developing and validating new methods related to RBC in vitro and in vivo testing. Prepare SOPs, technical reports and control the purchase of blood units and supplies for RBC biochemistry group. Operate Haemonetics 215 cell processors as well as train personnel to operate Coulter counter, CO-oximeter, Flame photometer, Osmometer and other hematology equipment. Measure CBC, ATP, 2,3-DPG, p50. Process and organize experimental data. Candidate must have a Ph.D., MD or M.S. degree in Biology, Biochemistry, Hematology or related area background and 1-5 years of blood related research or Blood Bank laboratory work experience. Experience in data processing and SOP writing of analytical and biological assays also necessary.

▼ Scientist Level II-Molecular Biology

Develop and implement viral screening assays focusing on the analysis of nucleic modification. Requires a Ph.D. in Microbiology, Molecular Biology or related field and 2-3 years comparable experience encompassing statistical analysis, document writing, assay validation, Molecular Biology techniques and high throughput screening. Additional experience working with retrovirus desirable.

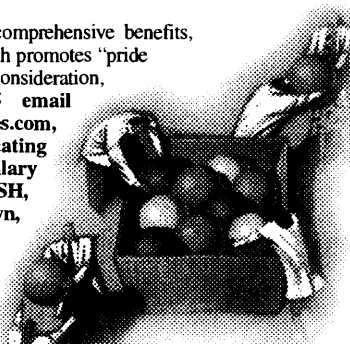
▼ Research Assistants-Levels I, II, III

Support the company's R&D effort by performing experimental design/execution, analyzing data, and preparing written summaries. Depending on your experience, you will work on projects of a moderate to complex nature, and perform analytics of readily identifiable factors through intangible variables. All candidates must have a BS/MS in Biology or Chemistry, up to 5 years of experience, strong knowledge of scientific principles, and the ability to conduct library searches. Proficiency in Word, Excel and PowerPoint essential; knowledge of GLP/cGMP guidelines desired.

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POSITIONS OPEN

Comparative vertebrate biologist **ASSISTANT PROFESSOR**. Applications are invited for a tenure-track position to start August 2001 in the Department of Biological Sciences within the Columbian School of Arts and Sciences, the liberal arts college of The George Washington University. Responsibilities include establishing an extramurally supported research program involving graduates and undergraduates in an area of vertebrate zoology. Preference will be given to applicants whose research area complements existing strengths in the Department, the Hominid Paleobiology Program, the Smithsonian Natural History Museum, or the George Washington Institute for Biomedical Sciences (areas such as functional morphology, comparative neurobiology, development, or behavior). Duties include teaching undergraduate and graduate courses in comparative vertebrate anatomy, lectures, and laboratory; a graduate/undergraduate course in the person's area of expertise (examples include comparative neurobiology, animal behavior, herpetology, or ornithology); and participating in graduate training within our Departmental programs and others. Review of applications begins October 16, 2000, and continues until the position is filled. Please send a letter of application which includes a statement of research plans, a description of courses you are prepared to teach, curriculum vitae, up to three reprints, and at least three letters of reference to:

Chair of the Search Committee
Department of Biological Sciences
Lisner Hall 340

The George Washington University
Washington, DC 20052

E-mail: biology@gwu.edu

Website: <http://www.gwu.edu/~biology/>

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

FACULTY POSITION IN MACROMOLECULAR NMR

The Department of Biology and Biochemistry at the University of Houston invites applications for a **TENURE-TRACK POSITION** at all faculty ranks. We are currently expanding our structural biology facilities and seek individuals who specialize in NMR studies on the structure and function of biological macromolecules. Candidates are preferred who will complement and strengthen our existing research groups in the Department of Biology and Biochemistry and the Department of Chemistry. The position requires a Ph.D. and postdoctoral experience. The faculty member is expected to develop and maintain a nationally competitive research program and a commitment to undergraduate and graduate teaching. Exceptional applicants for a tenured position will be considered. Applicants should submit their curriculum vitae, a statement of research plans, and have three letters of reference sent to: **Dr. Shiao-Chun (David) Tu, NMR Faculty Search Committee, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5513**. Review of applications will begin by November 1, 2000. *University of Houston is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.*

ASSISTANT PROFESSOR, medicinal chemistry/chemical toxicology: Tenure track; University of New Mexico College of Pharmacy. Minimum requirements: Ph.D. or equivalent in medicinal chemistry/chemical toxicology or closely related discipline, postdoctoral or equivalent experience, a record of research productivity, and evidence of ability to develop/maintain an extramurally funded chemistry/chemical toxicology research program. Applications accepted until November 30, 2000, or position is filled. Detailed application information at [website: http://hsc.unm.edu/jobs/index.html](http://hsc.unm.edu/jobs/index.html). Contact: **Dr. J. Born, Chair, Search Committee, College of Pharmacy, University of New Mexico, Albuquerque, NM 87131**. E-mail: jboren@unm.edu. *The University of New Mexico is an Equal Opportunity/Affirmative Action Employer/Educator.*

POSITIONS OPEN

FACULTY POSITIONS DEPARTMENT OF PHARMACOLOGY University of Wisconsin Medical School

The Department of Pharmacology invites applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level available July 1, 2001, as part of a Departmental growth program. Applicants should have a Ph.D. and/or M.D., relevant postdoctoral experience, a strong research background, and be using state-of-the-art biological systems and methods to define mechanisms that regulate cell function. Outstanding individuals who will expand and complement Departmental teaching programs and research programs in the areas of cardiovascular pharmacology, receptor pharmacology, neuropharmacology, signal transduction, regulation of cell growth, pharmacogenomics, and structural biology will be considered. Faculty in the Department of Pharmacology are expected to establish externally funded research programs and teach medical students, graduate students, and postdoctoral trainees. The Department of Pharmacology functions in an outstanding research environment and participates in campuswide interactive programs. An attractive start-up package and competitive start-up funds will be available.

For full consideration, applications should be received by October 31, 2000; however, the search will continue until the positions are filled. Applicants should send curriculum vitae, along with a summary of research interests and goals, and arrange to have three letters of reference sent to:

Faculty Search Committee
Department of Pharmacology
University of Wisconsin Medical School
1300 University Avenue
Madison, WI 53706-1532

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

ASSISTANT PROFESSOR VASCULAR PLANT SYSTEMATICS PLANT BIOLOGY Arizona State University

The Department of Plant Biology invites applications for a tenure-track faculty position in the area of plant systematics at the Assistant Professor level. Preference will be given to candidates applying imaginative approaches, combining molecular techniques with monographic, developmental, evolutionary, and/or morphological studies and who have demonstrated ability to work with an interdisciplinary group of faculty. The Vascular Plant Herbarium at Arizona State University has a long history of research in the *Cactaceae* and other Southwestern desert plants and close connections with area botanical gardens. Current research emphases of the Herbarium include floristic studies of Arizona and research on Latin American plants. The successful candidate will be expected to develop a vigorous extramurally funded research program and contribute to teaching at the undergraduate and graduate levels, including courses in Arizona flora and the use of molecular techniques. Applicants must have a Ph.D. degree in biological sciences, postdoctoral experience, evidence of research productivity, and demonstrated potential for excellence in teaching. Additional information about the Department and this position can be found at [website: http://lifesciences.asu.edu/plantbiology/](http://lifesciences.asu.edu/plantbiology/). The position is scheduled to begin August 16, 2001, pending final budgetary approval. Applicants must send curriculum vitae; statement of research interests and teaching philosophy; and the names, addresses, and e-mail addresses (if possible) of four references to: **Chair, Plant Systematics Search Committee, Department of Plant Biology, Arizona State University, Box 871601, Tempe, AZ 85287-1601** by November 15, 2000. *Arizona State University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

The Department of Biology invites applications for a full-time tenure-track position in forest biology. Hiring is expected to be at the **ASSISTANT PROFESSOR** level, with a possibility for a junior **ASSOCIATE PROFESSOR** position.

Applicants should have a strong background in one or more of the following areas: plant molecular biology and genetics, biochemistry, growth and development, reproduction, and pathogens and disease. Applicants with outstanding records in other areas related to forest biology will be considered. The successful candidate will be a member of the Centre for Forest Biology, a research and graduate program whose primary focus is on plant biotechnology, development, and regeneration. The Centre has six full-time faculty members. The appointee will be expected to develop a rigorous, independent research program funded by external support. He/she also will be expected to participate in the research and teaching activities of the Centre for Forest Biology. Starting date will be 1 July 2001.

Qualifications include the completion of a Ph.D. and demonstrated strong research and teaching potential. Candidates with postdoctoral experience will be preferred. Letters of application, clearly outlining the candidate's expertise, teaching experience, and research interests along with curriculum vitae and names and contact information of at least three references, should be sent by December 15, 2000, to:

Dr. B. Koop, Chair
Department of Biology, University of Victoria
P.O. Box 3020 STN CSC
Victoria, BC V8W 3N5 Canada
Telephone: 250-721-7091; FAX: 250-721-4493
E-mail: biochair@uvic.ca
Website: <http://web/uvic.ca/biology/>

The University of Victoria is an Equity Employer and encourages applications from women, persons with disabilities, visible minorities, and aboriginal peoples. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

FACULTY POSITION SENSORY PHYSIOLOGY

The Department of Nematology, University of California, Riverside, invites applicants for an 11-month tenure-track position at the **ASSISTANT PROFESSOR** level. The position will be available July 1, 2001, and carries a 75% research appointment in the Agricultural Experiment Station and a 25% teaching appointment in the College of Natural and Agricultural Sciences. The successful applicant will be expected to develop an innovative and highly competitive internationally recognized research program with emphasis on nematode sensory physiology. Potential approaches include characterization of chemical signals in the soil environment and the nematode response systems involved in chemo- and thermotaxis. Opportunities in basic research include characterization of attractant/repellent substances from hosts, pheromones in nematode mating behavior, sensory perception, and molecular genetics of the sensory system. It is expected that in addition to whole organismal work, the program will employ electrophysiological and molecular tools. The appointee will have the opportunity to interact with one or more campus units in biology, cell/molecular/developmental biology, ecology/evolution, entomology, genetics, microbiology, neurosciences, and plant pathology. Applicants must have a Ph.D. in the biological sciences or closely related fields and must possess a strong commitment to teaching and a high research potential. Applications including curriculum vitae, a statement of research and teaching interests, a complete list and selected reprints of publications, and three letters of reference should be sent to: **Dr. E. G. Platzer, Department of Nematology, University of California, Riverside, CA 92521-0415**. Additional information about the Department is available at [website: http://cnas.ucr.edu/~nem/index.html](http://cnas.ucr.edu/~nem/index.html). Review of applications will begin January 5, 2001, and continue until the position is filled. *The University of California is an Affirmative Action/Equal Opportunity Employer.*

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Director of Biology

The ideal candidate will head the molecular biology research group, provide leadership in molecular & transcriptional biology, and contribute to the research portfolio as part of the research management team. Requires a Ph.D. in molecular & cellular biology; 7+ years exp.; the ability to assemble, lead & manage interdisciplinary teams; plus in-depth knowledge of the mechanisms governing gene transcription. Knowledge of oncology and/or signal transduction highly desirable. **Job Code: DB/HMSCI**

Director of Pharmacology

The ideal candidate will be a key member of the research management team; will conduct efficacy, safety & pharmacokinetic studies; and will manage the operation of our animal facility. Requires a Ph.D. in Pharmacology or related field; 5+ years exp.; the ability to assemble & lead multi-disciplinary teams; and working knowledge of pharmacokinetics & drug metabolism in animals is required. Strong leadership skills needed. Extensive exp. in either infectious disease or oncology is strongly preferred. **Job Code: DP/RTSCI**

Staff Scientist - Bacterial Genetics

The ideal candidate will be a Ph.D. microbiologist with 2+ years postdoctoral experience. In this key position, you will focus on mechanisms of transcriptional regulation in prokaryotes. Requires several years working experience in genetics & gene differential expression of Gram-positive bacteria, such as *Bacillus subtilis*, *Staphylococcus aureus*, and *Streptococcus pneumoniae*. Excellent communication skills & the ability to work in an interactive multidisciplinary environment are essential. **Job Code: BG/KDSCI**

We also have **Research Associate** positions available in multiple disciplines. For more detailed information, please visit our Website.

We offer a competitive salary and excellent benefits package plus the unique opportunity to participate in an energetic future-oriented environment. Please forward your CV, noting **Job Code**, to:

GeneSoft, Inc.
Human Resources
2 Corporate Drive, Suite 100
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Supervising Clinical Supplies and Stability Packaging operations, you will serve on the Clinical Supplies project planning team; schedule operations and work activities; coordinate and supervise exempt/non-exempt personnel; and ensure staff is familiar with cGMP's and company/departmental SOP's. You'll also create and approve related documentation; monitor contract packaging operations; as well as act as an information resource regarding drug products and dosage forms. Must be a Registered Pharmacist with a BS/MS degree in pharmacy, computer literacy and knowledge cGMP's and departmental Standard Operating Procedures. Strong communication and supervisory skills are essential.

PHARMACEUTICAL ANALYSIS SCIENTISTS

Paying intense attention to detail, you will be responsible for assay development and validation, specifications, dissolution methodologies and special projects. Ideal candidates will possess a BS/MS degree in chemistry, industrial pharmaceutical analysis experience in research and development, as well as a background involving HPLC, GC, UV/VIS and wet chemistry. Must have knowledge of GMP's and strong documentation skills.

We offer a competitive salary, an extensive benefits package and excellent opportunities for personal and professional growth. Please mail or fax resume indicating position of interest, to: **Human Resources Dept-MK/SM, Purdue, 444 Saw Mill River Road, Ardsley, NY 10502; FAX: (914) 709-2590; E-mail: martin.katz@pharma.com**. Corporate standards require drug testing and background investigation. We are an equal opportunity employer committed to a diverse workforce.

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POSITIONS OPEN

FACULTY POSITIONS Pharmacetics and Pharmacodynamics The University of Illinois at Chicago

The Department of Pharmacetics and Pharmacodynamics in the College of Pharmacy invites applications for two tenure-track faculty positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Applicants must possess a Ph.D. and/or Pharm.D. We are particularly interested in candidates with research interests in molecular genetics, toxicology, pharmacogenomics, drug development and targeting, or drug and gene delivery. We have particular interests and strengths in cancer therapy and cancer chemoprevention. Successful candidates should have a record of peer-reviewed grant support and publications in these areas and should be prepared to participate in the teaching programs in the College.

The Department of Pharmacetics and Pharmacodynamics is under the new leadership of **Dr. William T. Beck** and can offer first-class laboratory space and competitive packages to the successful candidates. The University of Illinois at Chicago has all the necessary core facilities to perform work in the desired areas of research.

For fullest consideration, send or e-mail a letter describing current and proposed research activities, current curriculum vitae including grant funding history, and the names of three references to:

Dr. Tony Ah-Ng Kong, Search Committee Chair
Department of Pharmacetics
and Pharmacodynamics (MC 865)
College of Pharmacy
University of Illinois at Chicago
833 South Wood Street
Chicago, IL 60612-7231
E-mail: kongt@uic.edu

For fullest consideration, applications should be received by December 15, 2000, but the search will continue until positions are filled.

The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer. Applications are especially encouraged from women and minorities.

ASSISTANT PROFESSOR MOLECULAR RECOGNITION

Under new leadership, the Department of Biochemistry at the State University of New York at Buffalo is embarking on a major expansion designed to add six new faculty within the next three years. Our goal is recruitment of highly qualified and motivated Scientists having research interests in modern biochemical and/or genetic approaches to signal transduction, gene regulation, mutagenesis and repair, or the enzymology associated with any of these processes.

The Department has substantial strengths in protein biochemistry and gene regulation, as well as significant interactions with other programs campuswide via Centers for Advanced Molecular Biology and Immunology, Toxicology Research, Single-Molecule Fluorescence, and Microbial Pathogenesis. Major initiatives are underway within the School of Medicine aimed at adding to existing strengths in structural biology, functional genomics, and proteomics. Applicants employing these technologies in their research programs are encouraged and will have full access to these facilities.

Successful candidates will have a Ph.D. or M.D. degree and at least two years of postdoctoral experience and will be expected to establish independent research programs within the highly collaborative environment existing in the school. Ample space and highly competitive set-up/salary packages will be provided. To participate in this exciting phase of our Department's growth, submit curriculum vitae, concise description of research plans and background, and the names of three individuals qualified to act as references to: **Dr. Kenneth Blumenthal, Chairman, Department of Biochemistry, Faculty Search, School of Medicine, State University of New York, Buffalo, 140 Farber Hall, Buffalo, NY 14214.** *The State University of New York is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



MOLECULAR MICROBIOLOGIST. Tenure-track **ASSISTANT PROFESSORSHIP.** Introductory and advanced courses; teaching credit for maintaining an active research program engaging undergraduate students in the study of an important biological problem. Possible research areas include but are not restricted to host-pathogen interactions and the regulation of gene expression in prokaryotes. Familiarity with prokaryotic or other genome projects helpful; an interest in teaching courses for non-science or interdisciplinary students would be welcomed. At least two years of postdoctoral experience required. Letter of application, curriculum vitae, statement of research plans and teaching interests, and three reference letters by November 15, 2000, to: **Sharon Nangle, Biology Search Committee, Haverford College, 370 Lancaster Avenue, Haverford, PA 19041.** Questions about the position to: **Philip Meneely, Chair of Biology; e-mail: pmeneely@haverford.edu.**

Haverford College, located 10 miles west of Philadelphia, is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are especially encouraged to apply.

The New York State Museum is seeking to fill a **SENIOR SCIENTIST (ENTOMOLOGY)** position to conduct a program of independent and collaborative research in insect molecular biology. The incumbent will oversee the newly created, multiuser New York State Laboratory for Conservation and Evolutionary Genetics by conducting original research and collaborating with state scientists on other molecular projects. Candidates must have a Ph.D. in entomology with a focus on molecular genetics and three years of professional experience as an Entomologist with experience in laboratory management and cross-disciplinary collaboration and a record of peer-reviewed publications. Nine months of this experience must have been laboratory and field research. Preferred candidates will have demonstrated ability to obtain outside funding through grants and/or other sources. The position has a starting salary of \$47,048 leading to a maximum salary of \$58,059 based on annual performance advances. This is a provisional appointment pending participation in a competitive Civil Service examination. To apply, send curriculum vitae, list of three professional references, and letter of interest by October 23, 2000, to: **Ms. Gayle Bowden, Director, Human Resources Management, Box SC-77, New York State Education Department, 89 Washington Avenue, Room 528 EB, Albany, NY 12234.** FAX: 518-486-5631; e-mail: scalvin@mail.nysed.gov. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available in the Division of Medical Oncology, Duke University Medical Center, to study the role of transforming growth factor beta (TGF- β) receptors in signal transduction, cancer biology, and vascular biology using mouse and cell culture models. Three-year position funded by an NIH research training grant. Position will provide the opportunity to learn appropriate techniques and skills required to develop an independent research career. Applicants must have a Ph.D. and/or M.D. Research experience in molecular and cellular biology or genetics preferable. Applicants should submit curriculum vitae, description of research interests, and names and contact information for two references to: **Dr. Gerry Blobel, Duke University Medical Center; e-mail: blobel001mc@duke.edu; FAX: 919-681-7985.**

Contact for additional information:

David Dellinger
Duke University Medical Center Division
of Hematology/Oncology
Box 3406 DUMC
Durham, NC 27710
Telephone: 919-684-6215
FAX: 919-681-7985

POSITIONS OPEN

FACULTY POSITION VIROLOGY/IMMUNOLOGY

The Department of Microbiology at the James H. Quillen College of Medicine invites applications for a tenure-track position starting July 1, 2001, at the **PROFESSOR or ASSOCIATE PROFESSOR** level. Our focus will be on applicants using molecular approaches to explore immunologic aspects of human viral diseases (or animal models of human viral disease). Successful applicants will be expected to pursue vigorous, independent, and collaborative research programs in viral immunology and to teach in their area of expertise. Applicants should have a Ph.D., M.D., M.D./Ph.D. or a D.V.M./Ph.D. and established extramural funding. Salary and rank are commensurate with qualifications and experience. The James H. Quillen College of Medicine, located in Johnson City, Tennessee, is beginning its 26th year and is currently expanding and strengthening its research mission. Johnson City is a town of 60,000 nestled in the Blue Ridge Mountains 60 miles northeast of Great Smoky Mountains National Park. Johnson City offers a moderate cost of living, good schools, and numerous cultural and recreational activities. Interested individuals should submit an application letter containing (1) a statement of research and teaching interests, (2) curriculum vitae, (3) reprints of four recent significant publications, and (4) three letters of recommendation to: **Dr. Robert V. Schoborg, Chair, Microbiology Faculty Search Committee, Department of Microbiology, James H. Quillen College of Medicine, East Tennessee State University, Box 70579, Johnson City, TN 37614.** Telephone: 423-439-6295; FAX: 423-439-8044; e-mail: Schoborg@etsu.edu. Screening of applicants will begin November 15, 2000, and the search will continue until a suitable candidate is found. *East Tennessee State University is an Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK FACULTY POSITION IN PHARMACOLOGY East Tennessee State University

The Department of Pharmacology is seeking a Biochemist/Pharmacologist with expertise in signal transduction to complement ongoing NIH-funded research programs. Appointment will be made at a rank commensurate with the qualifications of the candidate. Candidates must have a Ph.D. and/or M.D., at least three years of postdoctoral training, and an active research program. Applicants must have current NIH-RO1 extramural research support (or equivalent). Additional responsibilities will include teaching medical students and graduate students in our biomedical science graduate program.

Submit concise statement of research interests, curriculum vitae, and names and addresses of three references to:

Jeffrey L. Ardell, Ph.D.
Department of Pharmacology
James H. Quillen College of Medicine
East Tennessee State University
Johnson City, TN 37614-0577
E-mail: ardellj@etsu.edu

Equal Opportunity/Affirmative Action Employer.

San Francisco Bay Area law firm seeks full-time **SCIENTIFIC CONSULTANT** in product liability litigation in our Oakland office. Ph.D. or Dr.P.H. in biological science or epidemiology/biostatistics plus two years of postdoctoral training required. Must have good working knowledge of population biology, experimental design, physiology, anatomy, and both multivariate and nonparametric statistics. Training or experience in immunology and cardiology is desirable. Applicant must have exceptional writing and analytical skills.

Send curriculum vitae and cover letter to: **Roxanne G. Morris, Practice Support Supervisor, Crosby, Heafey, Roach & May, 1999 Harrison Street, Suite 2600, Oakland, CA 94612.** E-mail: rrmorris@chrn.com; FAX: 510-273-8832.

Inquire Within



**Genentech's people share
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Initiative, creativity, risk-taking—
the stuff from which break-
through medicines are created.
Expect the extraordinary. Share your
traits with us.**

Research Associate/ Senior Research Associate

In this role, you will participate in discovery research aimed at finding novel therapeutic targets for treating chronic inflammatory and autoimmune diseases. You will study the biology of selected immune molecules using *in vitro* expression and reporter assays, flow cytometry, immunohistochemistry, ELISA, Western blotting, *in situ* hybridization and real-time PCR. In addition, you will construct fusion proteins for *in vitro* and *in vivo* studies and evaluate the specificity and efficacy of therapeutic antibodies. Novel immune molecules will be identified through close collaboration with the Molecular Biology and Bioinformatics Department. Applicants should have a BS/MS in Cell or Molecular Biology and at least 3 years relevant research experience. Proficiency in commonly used molecular and cell biology techniques is a must. Strong interpersonal and communication skills are vital. Job Code SCI2497

Scientist/ Senior Scientist

Working in our Immunology Department, you will use your strong record of discovery-based research to identify and characterize the biology of molecules that

may lead to novel therapeutics for the treatment of chronic immune-mediated inflammatory diseases. Applicants should have a PhD, MD or a combination of both in Immunology or related scientific discipline with advanced postdoctoral training in immunology or cell molecular biology of inflammation, autoimmunity, tumor immunology, or cardiovascular system inflammation. Job Code SCI2543

To apply, please email your resume, indicating Job Code, to genentechad@webhircpc.com (place Job Code in the subject field). Or mail, indicating Job Code, to Genentech, Inc., Attn: Human Resources, PO Box 1950, South San Francisco, CA 94083-1950. Genentech is an Equal Opportunity Employer.

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The Jackson Laboratory

The Jackson Laboratory is an independent, non-profit research organization at the forefront of research in mammalian genetics. In addition to its research and training missions centered around the mouse as the premier mammalian model organism for understanding human biology and disease, the Laboratory distributes standardized genetic resources to researchers worldwide. With the recent remarkable advances in mammalian genetics and genomics, the Laboratory is uniquely poised to have an increasingly significant impact on scientific knowledge and human health.

Request for Nominations for:

Director of The Jackson Laboratory

The Laboratory seeks a Director with the leadership qualities, vision, and outstanding scientific credentials in mammalian biology/genetics to guide the Laboratory's research mission and resources growth in this exciting new era. The Director has the authority and responsibility for overseeing over 30 independent research groups and the JAX® Research Systems resources division, recruiting and retaining the highest quality staff, and articulating the Laboratory's considerable scientific achievements in fundraising and scientific meetings.

The Jackson Laboratory continues to experience major growth, with a current staff of more than 1,000 employees and an annual budget that has tripled over the last 10 years to \$80 million. Located in scenic Bar Harbor, Maine, adjacent to Acadia National Park, the Laboratory is an Equal Opportunity/Affirmative Action Employer.

Please send nominations of truly outstanding candidates for this important position to:

Director Search Committee, c/o Ms. Rita Poirier, The Jackson Laboratory,
600 Main Street, Bar Harbor, ME 04609-1500

email: rsp@jax.org ■ **phone:** (207) 288-6181 ■ **fax:** (207) 288-6044

<http://www.jax.org>



POSITIONS OPEN

SIGNATURE PROGRAM IN PLANT SCIENCE THE UNIVERSITY OF NEBRASKA-LINCOLN

The University of Nebraska-Lincoln is sponsoring a major new research initiative in plant genomics. Several new positions in functional genomics, computational biology, and structural biology are planned. As the second phase of our hiring, we invite applications for two nine- or 12-month, tenure-track **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** positions. Candidates must have a Ph.D. or equivalent degree and postdoctoral training with preference given to candidates interested in pursuing fundamental research utilizing modern genomics technologies. Applicants at the senior level must have developed a nationally/internationally recognized research program. The successful candidates will be expected to establish vigorous, competitively funded independent research programs. The two positions will be housed within the Beadle Center for Genetics and Biomaterials Research, a modern, state-of-the-art research facility on the UNL campus, and will be provided with excellent laboratory facilities, generous start-up support, and the opportunity for steady, long-term support to their programs. The successful applicants will have the opportunity to select a home department with joint appointment to the Center for Biotechnology. Teaching responsibilities, likely to involve one course per year in the applicant's area of expertise, will be negotiated depending on the home department selected. Demonstrated experience in teaching and/or acquiring independent funding is highly desirable.

Plant Developmental Biologist. Areas of particular interest include but are not limited to plant developmental signals associated with light sensing, organellar biogenesis, transmission and turnover, and cellular differentiation.

Biochemical Geneticist. Emphasis on investigation of important plant metabolic or signaling pathways using genetic/genomic approaches. Areas of interest include the genetic dissection of biosynthetic pathways or their regulation, mechanisms of RNA/protein turnover, identification of membrane receptors, and novel product engineering in plants.

Applications will be accepted to November 20, 2001, or until suitable candidates are identified for each of the positions. Interested persons should submit a letter of application; a summary of teaching and research goals; and curriculum vitae with names, addresses, and e-mail/FAX numbers of three references to: **Dr. Sally Mackenzie, PSI Search Committee Chair, Center for Biotechnology, N300 Beadle Center, University of Nebraska, Lincoln, NE 68588-0665.** Contact **Dr. Mackenzie** at **Telephone: 402-472-6997** for additional information.

UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity, is responsive to the needs of dual-career couples, and assures reasonable accommodation under the Americans With Disabilities Act.

Tufts University, Department of Chemistry, seeks to make a tenure-track appointment at the **ASSISTANT PROFESSOR** level, but highly qualified candidates at a higher level will be considered. The research area is open but should complement existing Departmental strengths in biomedical, environmental, and materials chemistry. The teaching expertise for the position is also open, but the candidate will be expected to contribute periodically to the teaching of general chemistry as well as her/his specialty. Successful candidates will demonstrate the potential to develop an outstanding research program and to excel in teaching. Ph.D. in chemistry is required. Send curriculum vitae, research plan, and three letters of recommendation to: **Faculty Search Committee, Department of Chemistry, Tufts University, Medford, MA 02155.** Evaluation of candidates will begin October 15, 2000, and will continue until the positions are filled. *Tufts is an Affirmative Action/Equal Opportunity Employer. We are committed to increasing the diversity of our faculty. Applications from women and members of underrepresented groups are strongly encouraged.*

POSITIONS OPEN



RESEARCH LEADER, GS-14/15 U.S. DEPARTMENT OF AGRICULTURE (USDA)

Agricultural Research Service (ARS)

The ARS Pasture Systems and Watershed Management Research Unit, located at Pennsylvania State University, has a challenging position for a Supervisory Soil Scientist, Research Agronomist, or Hydrologist. This individual will serve as Research Leader of the Unit and will be responsible for leading and participating in a team of 11 Research Scientists in research to identify and solve problems of plant, soil, and water systems management in sustainable dairy and livestock agriculture. Candidates must have research expertise in soil science, agronomy, or hydrology and an understanding of interactions among the broad areas of nutrient management, grazinglands, and integrated farming systems. Candidates must also have experience in leading and supervising multidisciplinary research teams and the ability to communicate with individuals or groups from diverse backgrounds in a variety of situations. *U.S. citizenship is required.* Salary is commensurate with qualifications: \$70,457 to \$107,738 per annum. For information about the position, contact: **Dr. Frank Greene; Telephone: 215-233-6668; e-mail: fgreene@naa.ars.usda.gov.** For application, call: **Ms. Mary Ann Byrne; Telephone: 215-233-6571.** Visit the ARS Vacancy website: **www.ars.usda.gov/afm/hrd/resjobs.** Applications must be marked **ARS-XOE-0160A**, completed, and postmarked by November 6, 2000.

USDA/ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

ENDOWED CHAIR PHARMACEUTICAL SCIENCES

Texas Tech University Health Sciences Center

Applications are sought from outstanding candidates for the position of **PROFESSOR AND ENDOWED CHAIR** of Pharmaceutical Sciences in the Department of Pharmaceutical Sciences of Texas Tech University Health Sciences Center (HSC) School of Pharmacy. The School of Pharmacy is located in a new, greater than 102,000 square-foot building on the Harrington Regional Medical Center in close proximity to the Harrington Cancer Center and the regional campus of the Texas Tech School of Medicine. The Department has 18 faculty members with research interests in biotechnology/genomics, cancer, vascular biology, and pharmaceuticals/pharmacokinetics. Outstanding Scientists with interests in one or more of these areas are strongly encouraged to apply. The Department also has a Ph.D./M.S. program as part of the HSC Graduate School of Biomedical Sciences. For more information, visit our website: **http://pharmacy.ama.ttuhsu.edu.**

The successful candidate must have a strong history of independent grant funding, solid leadership and communication skills, and an established national and international reputation in his/her field of expertise. Academic responsibilities will include teaching and mentoring graduate and undergraduate students as well as maintaining a strong research program. A background in pharmacy is encouraged but not required. A discretionary fund will be provided to support the Endowed Chair's research program. Interested applicants should submit (1) curriculum vitae with list of publications; (2) a summary of research accomplishments and future goals; and (3) the names, addresses, and telephone numbers of three references to: **Dr. Quentin Smith, Texas Tech University HSC, School of Pharmacy, 1300 Coulter Drive, Amarillo, TX 79106. FAX: 806-356-4034; e-mail: quentin@cortex.ama.ttuhsu.edu.**

Texas Tech University Health Sciences Center is an Equal Opportunity/Affirmative Action Institution. Minorities and women are encouraged to apply.

POSITIONS OPEN

FACULTY POSITIONS IN BIOLOGY TENURE TRACK

Butler University is a private, nonsectarian university located in Indianapolis, one of America's most livable cities. Situated on a 290-acre wooded campus approximately five miles from the center of the city, the university offers its 4,100 students a traditional undergraduate experience in a large metropolitan community with a wide range of supplemental learning opportunities. The Department of Biological Sciences invites applications for three tenure-track **ASSISTANT PROFESSOR** positions beginning August 2001. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. Teaching responsibilities for all three positions include introductory biology. Other teaching opportunities include upper-division electives and/or senior seminars in your area of specialization. Butler has an established undergraduate research program supported by institutional funds. Successful candidates will be expected to sustain a research program involving undergraduates. Set-up funds are available for each position.

Animal Physiologist: Teaching responsibilities include courses in animal physiology and general zoology, as well as one or more electives. Experience with computer-based laboratories supporting inquiry-based learning is a plus. Area of research specialization is open.

Zoologist: The Department is interested in attracting a broadly trained Biologist to teach general zoology and upper-division electives in organismal biology. Area of research specialization is open.

Field Biologist: This is a new tenure-track line in the Department. We are interested in expanding our offerings in field biology and seek a colleague who will teach one or more courses with significant fieldwork. Area of research specialization is open.

Because these positions are potentially interrelated, a single committee will review all applications. If you think you satisfy the requirements of more than one position, please indicate that in your cover letter. In addition, we are searching for people to complement the teaching and research areas of the present faculty. Those with training in invertebrate zoology, parasitology, plant/animal interactions, and microbial ecology may be given special consideration. Information about the teaching and research interests of our faculty and Departmental resources can be found at our website: **www.butler.edu/biology.** Applicants should submit a cover letter, curriculum vitae, a statement of teaching interests and philosophy, a statement of current and planned research, unofficial transcripts, and three letters of recommendation to: **Mrs. Janice Janitz, Biology Search/SM, Department of Biological Sciences, Butler University, 4600 Sunset Avenue, Indianapolis, IN 46208.** Inquiries can be made by e-mail to: **tdolan@butler.edu.** To be assured of full consideration, applications should be received by October 20, 2000.

Butler University is an Equal Opportunity Educator and Employer.

ASSISTANT PROFESSOR BIOPHYSICS

University of North Carolina at Greensboro

The Department of Physics and Astronomy has a nine-month tenure-track position (including start-up funds) beginning August 1, 2001. Requirements: Ph.D. and willingness to develop a research program in a subspecialty related to Departmental interests (electrophysiology or membrane transport), interact with faculty in physics and biology, and teach undergraduate courses in physics and biophysics. Postdoctoral experience strongly recommended. Submit curriculum vitae, statement of research interests and teaching philosophy, reprints, and three letters of reference by November 15, 2000, to: **Dr. Steve Danford, Department of Physics and Astronomy, P.O. Box 26170, University of North Carolina at Greensboro, Greensboro, NC 27402-6170.** *Equal Employment Opportunity/Affirmative Action; Women/Minorities/Veterans/Disabled.*

Population Geneticist – Extended Deadline

The Department of Biology and Wildlife and the Institute of Arctic Biology at the University of Alaska Fairbanks seek a qualified candidate for tenure-track Assistant Professor in Population Genetics (available 1 January 2001).

We expect that the successful applicant will develop a vigorous research program in the application of quantitative and molecular methods in studying contemporary patterns and dynamics of genetic variation within and among populations. The research program should complement departmental strengths in wildlife ecology, conservation biology, evolution, population biology, human health, and systematics.

We expect the successful candidate to develop an active extramurally funded research program, exploiting research opportunities in Alaska, potentially including collaborations with departmental faculty and state and federal agencies to address conservation issues in pristine and modified environments. Available facilities include: the Spatial Ecology Laboratory, Automated Sequencing and Genotyping Facility, large collections of frozen tissues at the UA Museum, animal quarters, the Arctic Region Supercomputing Center, and a modern greenhouse (<http://mercury.bio.uaf.edu>).

The assigned teaching component (one course in the first year and two courses/year thereafter) will be a senior/graduate-level course in population genetics and other courses, possibly including general biology, genetics, or quantitative genetics, based on the needs of the department and the interests and expertise of the successful applicant.

Applicants must have a Ph.D. in Biology or related field (post-doctoral experience preferred). Materials must be received by October 15, 2000. Send complete curriculum vitae, statements of research and teaching interests, reprints, and three letters of reference to: **Edward C. Murphy, Chair, Population Genetics Search, Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, Alaska, 99775. efecm@uaf.edu (907) 474-7154, FAX (907) 474-6967.**

Women and minorities are encouraged to apply. The University of Alaska is an Equal Opportunity/Affirmative Action Employer and Educational Institution.

Assistant Professor - Environmental Toxicology Molecular/Genetic Toxicologist UC Santa Cruz

The new graduate program in Environmental Toxicology at the University of California, Santa Cruz invites applications for a tenure track position at the Assistant Professor level. We are interested in candidates with a strong, extramurally fundable research program that stresses fundamental science and its application to existing or emerging problems in environmental toxicology. A research emphasis on the interactions between environmental agents and basic biological processes that underlie molecular and/or genetic toxicological outcomes in sensitive populations of organisms is preferred. The candidate will be expected to teach both graduate and undergraduate classes in Environmental Toxicology, and to actively participate in the ongoing development of the new department and graduate program in Environmental Toxicology. Postdoctoral experience is preferred. The campus is especially interested in candidates who can contribute to the diversity and excellence of the academic community through their research, teaching and/or service.

Rank: Assistant Professor

Salary: \$44,300 - \$49,400

Minimum Qualifications: Ph.D. or equivalent in Biology, Biochemistry, Chemistry, and/or Toxicology, or a related field completed or expected by effective date, and achievements in or demonstrated potential for university research and teaching.

Position Available: July 1, 2001

Apply to: Applicants should submit a curriculum vitae, a brief description of research and teaching interests, copies of reprints, and three confidential letters of recommendation to: Chair, Environmental Toxicology Search Committee, Department of Environmental Toxicology, 269 Jack Baskin Engineering Bldg, University of California, Santa Cruz, CA 95064. **Visit the Environmental Toxicology website at:** <http://natsci.ucsc.edu/acad/etox/>. **Please refer to Position # 260 in all correspondence. Closing Date: December 15, 2000**

UCSC IS AN AFFIRMATIVE ACTION/EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER. WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY.

Three Multidisciplinary Modeler Positions

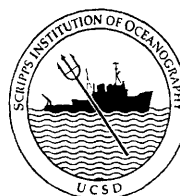
The new Center for Observations, Modeling and Prediction at Scripps Institution of Oceanography (COMPAS) seeks 3 Research Scientists in the field of small-scale and coastal modeling, improvements of large-scale ocean models and coupled ocean-climate interactions to provide linkages across ocean and atmospheric modeling efforts ongoing and to be developed at SIO.

Applicants with all levels of experience are sought, but candidates with exceptional track records of expertise and leadership in numerical modeling are preferred. Examples of possible fields of interest include (but are not limited to) air-sea interaction, non-linear dynamics, ocean, atmosphere, and coupled modeling, climate forecasting, and understanding of small-scale and coastal processes, including mixing, internal and surface wave breaking, bottom boundary layers, etc. The time scales of interest include rapid coastal processes, studies of current state of the ocean, as well as forecasts of future large-scale changes on annual, decadal, centennial time scales. This search emphasizes experts in the physical aspects of the ocean, atmosphere and coupled climate system. Candidates who can also develop collaborations and complementary studies of benefit to understanding biological and geochemical interactions are encouraged to apply.

Requirements are a Ph.D. or equivalent and the ability to conduct independent research. The successful candidate will be expected to develop extramurally funded research programs. For the first three years of the appointment, the institution will provide 50% of the salary for this position. Support in the subsequent years will be according to SIO regulations. The research appointments parallel University of California faculty appointments, but are without formal teaching requirements. In this career track position, SIO will provide base salary support of 25% for the Associate Research rank and 50% upon promotion to Full Research as a supplement to extramural support obtained by the candidate, subject to the availability of institutional funds. Rank and salary are commensurate with experience and based on the University of California salary scales.

Closing date is November 15, 2000 or until filled. Interested candidates should send a cover letter, curriculum vitae, a list of five references, immigration status and a brief statement of research interest to:

Professor Detlef Stammer
Scripps Institution of Oceanography - Mail Code 0230
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0230



Scripps Institution of Oceanography
University of California, San Diego

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

POSITIONS OPEN

UNIVERSITY OF MINNESOTA SCHOOL OF MATHEMATICS

Future development of advanced biotechnology will depend on a better fundamental understanding of complex cellular processes. The Department of Mathematics and the Biological Process Technology Institute at the University of Minnesota seek an individual engaged in modeling and analysis of self-organization and biocomplexity at the cellular level for a joint appointment. Possible areas of concentration include protein folding, biocatalysis, functional genomics or proteomics, analysis of complex metabolic or gene control networks, and molecular evolution. This will be a **TENURE-TRACK or TENURED POSITION**, with the level of appointment to be commensurate with qualifications. Ph.D. in mathematics or a related field is required by the beginning date of appointment. Salary competitive. Consideration of applications will begin November 1, 2000, and will continue until position is filled. Send curriculum vitae, description of research, and a minimum of four letters of recommendation to:

Professor Hans Othmer
School of Mathematics
University of Minnesota
127 Vincent Hall
206 Church Street S.E.
Minneapolis, MN 55455
Telephone: 612-624-8325

Website: <http://www.math.umn.edu>

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

ASSISTANT PROFESSOR/MICROBIOLOGY DEPARTMENT OF BIOLOGICAL SCIENCE Southeastern Louisiana University

The Department of Biological Sciences at Southeastern Louisiana University invites applications for a tenure-track position at the rank of Assistant Professor. Preference will be given to individuals with research expertise in molecular techniques in environmental microbiology or microbial ecology. Applicants must have a Ph.D., postdoctoral training, and a commitment to both research and teaching. The successful candidate will maintain an active research program, direct undergraduate and graduate students (M.S. candidates), and participate in teaching at the undergraduate and graduate levels in microbiology. Applicants must be committed to working with diversity. Salary is commensurate with experience and qualifications. Applicants should submit curriculum vitae, summary of research interests and teaching philosophy, and three letters of reference to: **Gary T. Howard (Search Committee Chair), Department of Biological Sciences, Southeastern Louisiana University, SLU 10736, Hammond, LA 70402.** Review of applications will begin November 1, 2000, and continue until the position is filled. Official transcripts of all academic work required upon employment. See biology website: www.selu.edu/biology for more information. *SLU is an Equal Opportunity/Affirmative Action Employer.*

DIRECTOR OFFICE OF BIOSTATISTICS AND BIOINFORMATICS Medical College of Georgia

The Medical College of Georgia, Georgia's health sciences university, is expanding its program in biostatistics to bioinformatics, which will include biostatistics, computational biology, computer science, and data management. We seek a midcareer to senior **SCIENTIST and ADMINISTRATOR** trained in mathematical statistics, biomathematics, computer science, or biostatistics to lead faculty and support staff in the unit. For more information see website: <http://www.mcgc.edu/research/biostat/index.htm>. Applicants should send curriculum vitae and three letters of recommendation to: **Frank Treiber, Ph.D., Chair, Search Committee, Medical College of Georgia, Georgia Prevention Institute, HS 1640, Augusta, GA 30912.**

POSITIONS OPEN

BIOLOGY DEPARTMENT PLANT BIOLOGIST

The Southwestern University Department of Biology invites applications from broadly trained Plant Biologists for a tenure-track appointment at the **ASSISTANT PROFESSOR** level to begin August 2001. A Ph.D. and a strong commitment to undergraduate teaching are required. Primary teaching responsibilities will include classical and population genetics for first-year biology majors, a plant biology course designed for nonscience majors, upper-level courses such as plant physiology or plant systematics, and the supervision of undergraduate research. Clearly indicate teaching and postdoctoral research experiences in the application. Southwestern University is a selective undergraduate institution committed to a broad-based liberal arts and sciences education. Affiliated with the United Methodist Church, it has over 1,250 students and maintains an attractive 11:1 student/faculty ratio. Southwestern's endowment of more than \$324 million ranks among the highest per student of undergraduate institutions in the country. The University is located in Georgetown, Texas, north of the Austin metropolitan area. For more information, visit our website: www.southwestern.edu. Interested persons should send a letter of application, curriculum vitae, teaching and research philosophies, graduate and undergraduate transcripts, and three current letters of recommendation to: **Faculty Recruitment Office, Job Number 9924, Southwestern University, Biology Search Committee, P.O. Box 770, Georgetown, TX 78627-0770.** Review of applications will begin on October 20, 2000. *Southwestern University embraces diversity within its faculty. Women and minority candidates are encouraged to apply. Equal Opportunity Employer/Minorities/Female.*

FACULTY POSITION

The Waksman Institute of Microbiology at Rutgers, The State University of New Jersey, invites applications for a tenure-track **ASSISTANT PROFESSOR** position from individuals involved in mechanistic studies of macromolecular machines responsible for fundamental biological processes including recombination, replication, transcription, splicing, or translation. We are especially interested in applicants whose research will involve microbial systems and/or novel biochemical and biophysical approaches.

We seek individuals with demonstrated ability and commitment to conduct cutting-edge basic research and an interest to teach at the undergraduate and graduate levels.

Applications should include a curriculum vitae, a publication list, a brief description of research plans, and confidential letters of reference from at least four professional references. Applications should be directed to: **Dr. Richard H. Ebright, Chair, Macromolecular Machines Search Committee, Waksman Institute, Rutgers University, 190 Frelinghuysen Road, Piscataway, NJ 08854-8020.** *Rutgers University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS IN EVOLUTION AND ECOLOGY

The Department of Biology and Biochemistry at the University of Houston invite applications for **TENURE-TRACK POSITIONS** (rank open). One is available in any area of ecology and evolutionary biology. Individuals working in either terrestrial or marine systems will be considered. The other is for an Evolutionary Biologist using computational approaches to molecular evolution. The positions require a Ph.D. and postdoctoral experience. Faculty members are expected to develop a nationally competitive research program and participate in graduate and undergraduate teaching. Submit curriculum vitae, a research plan, and have three letters of recommendation sent to: **Ecology and Evolution Search Committee, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5513.** Applications will be reviewed as they are received. *University of Houston is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.*

POSITIONS OPEN

EDNA BIGGS KURTZ CHAIR AND CHESTER M. ALTER ARBORETUM DIRECTOR

The University of Denver is seeking applications for the endowed Edna Biggs Kurtz **PROFESSOR OF BOTANY** in the Department of Biological Sciences. The successful candidate will hold the position of Arboretum Director with joint appointment at the **ASSOCIATE PROFESSOR or PROFESSOR** level in the Department of Biological Sciences. As Director, the successful candidate will provide leadership and long-range strategic planning for the Arboretum and will develop this resource as a teaching and learning tool for the university community. As a member of the Department of Biological Sciences in a tenure-track position, the successful candidate will be involved in undergraduate and graduate teaching and maintain a research program that complements the research interests of faculty involved in the ecology, evolution, and conservation biology major offered by the Department. An overview of the Department of Biological Sciences and a description of the Chester M. Alter Arboretum can be found at website: www.du.edu/biology/. Applicants should send curriculum vitae, a statement outlining one's view on developing an arboretum on a urban university campus, research and teaching statements, and three letters of recommendation to: **Chair of the Arboretum Director and Kurtz Professorship Search Committee, University of Denver, Department of Biological Sciences, Denver, CO 80210** by November 1, 2000.

TWO TENURE-TRACK ASSISTANT PROFESSORSHIPS EAST CAROLINA UNIVERSITY

Entomology. Responsibilities include teaching at the undergraduate and graduate levels, including a course in insect biology; performing appropriate professional service; and maintaining an extramurally funded research program, preferably in insect ecology, landscape ecology, or systematics. Send hard copy of curriculum vitae, a statement of teaching and research interests, and the names and contact information of three current references to: **Hal J. Daniel, Department of Biology, East Carolina University, Greenville, NC 27858-4353.**

Comparative physiology. Responsibilities include teaching at the undergraduate and graduate levels, including comparative animal physiology; performing appropriate professional service; and maintaining an extramurally funded research program that can interface the strengths of the Department: ecology, cell and molecular biology, and evolution. Send hard copy of curriculum vitae, a statement of teaching and research interests, and the names and contact information of three current references to: **Robert R. Christian, Department of Biology, East Carolina University, Greenville, NC 27858-4353.**

Both positions are to begin August 13, 2001, and screening begins November 1, 2000. Positions will remain open until filled.

FACULTY POSITION NEUROBIOLOGY

The Department of Biology and Biochemistry at the University of Houston invites applications for a **TENURED POSITION** at any rank for an individual working in the broadly defined areas of neural development or plasticity. The position requires an earned Doctorate and postdoctoral experience. The successful candidate will join a large and interactive group of cellular, molecular, and developmental Neurobiologists and is expected to develop a nationally competitive, externally funded research program and participate in graduate and undergraduate teaching. The Department has spacious laboratories and offers competitive start-up packages. Please submit curriculum vitae and statement of research interests and have three letters of recommendation sent to: **Neurobiology Search Committee, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5513.** *University of Houston is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.*



Quantitative and Molecular Sciences for Research on Populations

JOHNS HOPKINS SCHOOL OF PUBLIC HEALTH is developing a new cross-disciplinary program in Quantitative and Molecular Sciences for Research on Populations. Highly qualified individuals in the areas of cancer epidemiology, genetic epidemiology, molecular genetics of cancer, and bioinformatics and/or statistical genetics are encouraged to apply for tenure-track positions at junior and senior levels. These individuals will be part of a School and University-wide initiative, which includes graduate training programs and collaborative research opportunities across the Departments of Epidemiology, Biostatistics, Molecular Microbiology and Immunology, Mental Hygiene, Biochemistry and Molecular Biology, and Environmental Health Sciences.

Interested individuals should send a CV, letter describing their research interests, and names of three references to:

Sharon S. Krag, Ph.D.
Associate Dean for Graduate Education and Research
Johns Hopkins School of Public Health
615 North Wolfe Street, Room E1148
Baltimore, Maryland 21205
or email cklein@jhsph.edu.

These recruitments are supported in part by monies from Maryland's Cigarette Restitution Fund.

Women and underrepresented minorities are encouraged to apply. The Johns Hopkins University does not discriminate on the basis of race, color, gender, religion, sexual orientation, national or ethnic origin, age, disability, marital status, or veteran status.

<http://www.jhsph.edu>



MAYO CLINIC TRANSPLANTATION BIOLOGY RESEARCH PROGRAM

The Transplantation Biology program at the Mayo Clinic is seeking faculty for tenure or tenure-track positions in the program. The ideal applicant will be excited about developing an independent, cutting-edge basic science research effort, and at the same time participating in a highly interactive, multidisciplinary program. The program will consist of scientists working in the areas of cellular, molecular, and structural biology, biochemistry and immunology as they apply to fundamental issues in transplantation biology. Members of the program will also have appointments in the Mayo Medical School and Mayo Graduate School.

For more information, visit the Mayo Clinic Research website: <http://www.mayo.edu/research/research.html>. To apply, please send a cover letter describing your research interests, a curriculum vitae and the names and addresses of three references to:

Jeffrey L. Platt, MD
Transplantation Biology Research Program
Mayo Clinic
Medical Sciences Building 2-66
Rochester, MN 55905

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



Dean—Division of Biological Sciences

University of California, Davis

The University of California, Davis, invites applications and nominations for the position of Dean—Division of Biological Sciences. The Division is an intercollege unit with 110 faculty and 126 staff and is organized into five sections that represent major themes of modern biology: Evolution and Ecology; Microbiology; Molecular and Cellular Biology; Neurobiology, Physiology, and Behavior; and Plant Biology. The Division administers 9 undergraduate majors in biology involving approximately 3,500 students and provides administrative support for 11 graduate groups involving about 500 students.

The Dean is the chief academic and administrative officer of the Division responsible for academic planning, budgetary operations, and academic and staff personnel administration for all five sections. The Dean participates in campuswide policy development through membership on the Council of Deans and Vice Chancellors and chairs the Administrative Coordinating Council for Biological Sciences.

We seek candidates with a deep commitment to academic excellence. Qualifications include a distinguished record of research, teaching, and professional service appropriate for appointment as Professor in the Division; demonstrated ability for creative leadership and management, and the energy and vigor to translate ideas into action.

Vice Chancellor—Research

University of California, Davis

The University of California, Davis, invites nominations and applications for the position of Vice Chancellor—Research. This position reports directly to the Chancellor.

The Vice Chancellor—Research has responsibility for facilitating, promoting, and overseeing research within all of the campus's colleges, schools, hospital, and clinics; increasing extramural financial support including support for large, long-term, and interdisciplinary projects; furthering relationships with government and industry; and accelerating the campus's technology transfer program.

The Vice Chancellor—Research must understand the culture of a major research university; have the ability to deal effectively with public and private agencies that support scholarly research; be familiar with university patents and licensing; and have a full understanding of the contributions and requirements of scholars from all fields including the sciences, arts, social sciences, humanities, and professions. The successful candidate must have a strong record of personal, ongoing accomplishment as a research scholar appropriate for appointment as Professor and, secondarily, as an academic administrator.

Salaries for these positions will be commensurate with experience and qualifications. The starting date is July 1, 2001, or as negotiated.

Applications and nominations for these positions should be received by November 3, 2000 to ensure full consideration. These positions will remain open until filled. Applications, including a cover letter, curriculum vita, and the names, addresses, and telephone number of five references, should be sent to:

Larry N. Vanderhoef, Chancellor
Office of the Chancellor
University of California, Davis
One Shields Avenue
Davis, CA 95616-8558

UCDAVIS

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

POSITIONS OPEN

FACULTY POSITION IN 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 a 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, 2000, and will continue until the position is filled.

Emory University is an Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITION

The Department of Molecular Pathology, University of Texas M.D. Anderson Cancer Center invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. Candidates should have a track record in oncologic research with interest in clinical applications. The M.D. Anderson Cancer Center, an internationally renowned facility, is located in the Texas Medical Center within southwest Houston together with two medical schools, a graduate school, and several other internationally recognized biomedical facilities. Applicants must hold a Ph.D., M.D., or M.D./Ph.D. degree and have at least two years of postdoctoral research training. Salaries/benefits and research start-up support are nationally competitive. Submit curriculum vitae, description of research interests, and names of three references to: **Dr. Ralph B. Arlinghaus, Chairman, Department of Molecular Pathology (Box 89), The University of Texas, M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030**. Equal Opportunity/Affirmative Action Employer. Smoke-free environment. Women and minority applicants are encouraged to apply.

FACULTY POSITIONS AT DARTMOUTH

The Life Sciences at Dartmouth are undergoing a period of major growth and expansion. With this growth, there are a number of tenure-track faculty positions open for outstanding individuals who will bring or establish vigorous and innovative research programs. For more information on these opportunities, please visit the **websites** listed below:

Biochemistry
(<http://www.dartmouth.edu/~biochem/>)
Biological Sciences
(<http://www.dartmouth.edu/~biology/>)
Genetics
(<http://www.dartmouth.edu/dms/genetics/>)
Pharmacology/Toxicology
(<http://www.dartmouth.edu/dms/pharmtox/>)

Dartmouth's state-of-the-art facilities and commitment to excellence in research and education combine with its attractive location in the Upper Connecticut River Valley to create a unique scientific environment.

Dartmouth is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR

The Immunobiology Unit, Department of Medicine, Boston University Medical Center, invites applications for a faculty position. Candidates with a Ph.D. or M.D. degree and a strong research record in any area of immunology should submit curriculum vitae, an outline of future research plans, and the names of three references before October 16, 2000 to: **T. L. Rothstein, M.D., Ph.D., EBRC-437, Boston Medical Center, 650 Albany Street, Boston, MA 02118**. Equal Opportunity Employer.

POSITIONS OPEN



MAJOR INITIATIVE IN THE CHEMISTRY AND PHYSICS OF MATERIALS University of California, Irvine

As part of a major continuing multidisciplinary initiative in materials chemistry and physics, the School of Physical Sciences at the University of California, Irvine, invites applications for at least three new faculty openings at all levels. Applications are encouraged from candidates in all areas of materials chemistry and physics including but not limited to the areas of biomaterials; nanomaterials; electronic, photonic and magnetic materials; polymers; ceramics; atomic-scale manipulation; novel applications of materials to technology; and theoretical work related to these topics. At the **ASSISTANT PROFESSOR** level, we are seeking outstanding Ph.D.s who will establish vigorous research programs in areas that will complement existing strong programs in both the Department of Chemistry and the Department of Physics and Astronomy. The ability to effectively teach chemistry or physics at the undergraduate and graduate levels is required. Applicants for **ASSISTANT PROFESSOR** positions should send their curriculum vitae (including e-mail contact), a list of publications, and a research proposal to: **Dean Ronald Stern, Materials Search Committee, School of Physical Sciences, University of California, Irvine, CA 92697-4675**. Applicants should also arrange to have three letters of recommendation submitted on their behalf. Candidates for the senior faculty openings should submit their curriculum vitae (including an e-mail contact), a short description of their present research activities, and a list of potential references to the address above. To ensure full consideration during the 2000/2001 academic year, applications and all supporting materials should be received by December 15, 2000. The University of California is an Equal Opportunity Employer committed to excellence through diversity.

ASSISTANT/ASSOCIATE PROFESSOR

The Immunobiology Unit, Department of Medicine, Boston University Medical Center, invites applications for a faculty position. Candidates with a Ph.D. or M.D. degree and a strong research record in any area of immunology should submit curriculum vitae, an outline of future research plans, and the names of three references before October 16, 2000, to: **T. L. Rothstein, M.D., Ph.D., EBRC-437, Boston Medical Center, 650 Albany Street, Boston, MA 02118**. Equal Opportunity Employer.

NEUROSCIENCE FACULTY POSITION

The Biology Department at Morehouse College invites applications for a tenure-track position in neuroscience. Applicants should have a Ph.D. and postdoctoral experience and be willing to teach biology in a liberal arts environment. Research interest is open, but preference will be given to candidates whose research utilizes cellular and molecular techniques to investigate problems in behavioral neuroscience. Neuroscience faculty at Morehouse College participate in the National Science Foundation Center for Behavioral Neuroscience. Center programs include interinstitutional graduate and undergraduate neuroscience programs and research support for faculty, graduate students, and Postdoctoral Fellows. For more information on the college, Department, and Center for Behavioral Neuroscience, please visit our **websites** at: <http://www.morehouse.edu/Biology/bio.htm> and <http://www.cbn-atl.org>. Interested applicants should send a statement of research and teaching experiences and goals, a graduate transcript, and three letters of recommendation by November 17, 2000, to: **Dr. Melissa Harrington, Department of Biology, Morehouse College, 830 Westview Drive, Atlanta, GA 30314**. Equal Opportunity Employer.

POSITIONS OPEN

BIOPHYSICS RUTGERS UNIVERSITY-NEWARK

The Department of Physics at Rutgers University in Newark seeks to fill the first of three tenure-track appointments at the **ASSISTANT PROFESSOR** level as part of a significant expansion in the area of biophysics. The area of research is open and may include optical, spectroscopic, and/or computational approaches that employ the analytic tools of physics to address biological and/or molecular problems. Current research in the Department includes free electron laser development and applications, optical pumping and surface analysis, stable isotope tracer analysis, and ultraviolet light source development. Through partnership with the New Jersey Institute of Technology, the Department offers undergraduate, master's and Ph.D. degrees. The Rutgers-Newark campus is located in the University Heights area adjacent to the New Jersey Institute of Technology and the University of Medicine and Dentistry of New Jersey, and significant opportunities exist to collaborate with expanding biophysics research programs at these institutions. The appointee will be expected to establish an externally funded research program and have a strong commitment to graduate and undergraduate teaching. Applicants should send curriculum vitae, a description of research accomplishments and interests, and arrange to have three letters of reference sent to: **Professor Earl Shaw, Chair, Department of Physics, 101 Warren Street, Newark, NJ 07102**. E-mail: earlshaw@andromeda.rutgers.edu. Rutgers University is an Equal Opportunity/Affirmative Action Employer.

The following research positions are available to study the molecular mechanism of a novel tumor suppressor gene in human breast and prostate cancer. A **RESEARCH ASSOCIATE** is needed to carry out *in vivo* and *in vitro* biological studies. Qualified candidates must have a Ph.D. degree in biomedical fields with extensive training in cancer research. Hands-on experience with mouse model of cancer is preferred. Additional desirable skills include organ culture, Northern/Western blotting, proteolysis analyses, and *in situ* hybridization/immunohistochemical staining. A **RESEARCH ASSISTANT** or **ASSOCIATE** is needed to carry out independent studies on the biological and biochemical activities of tumor-suppressive proteins. Candidates must have a B.S. or M.S. or Ph.D. degree in biomedical sciences and extensive training in protein purification, biochemistry, and cell biology. A **RESEARCH ASSISTANT/LABORATORY MANAGER** is needed to assist the Primary Investigator in key experiments and manage the maintenance of the laboratory. Qualified candidates must have a B.S. or M.S. degree in biological sciences with experience in tissue culture and molecular biology. Please send curriculum vitae and names of three references to: **Dr. Shijie Sheng, Department of Pathology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201**. E-mail: ssheng@med.wayne.edu. Affirmative Action/Equal Opportunity Employer.

PROFESSORSHIP IN ENDOCRINE CANCER RESEARCH UNIVERSITY OF MICHIGAN

The University of Michigan Comprehensive Cancer Center invites applications for the newly created Millie Schembechler Professorship in Adrenal Cancer Research.

Established **SCIENTIST** sought with expertise in endocrine neoplasia and an emphasis on adrenal cancer research. Considerable resources are available to establish an outstanding research program in this area. This program will be part of the University of Michigan Comprehensive Cancer Center, an NCI-funded Center. Applicants should send curriculum vitae, a statement of current and future research plans, and the names of three references to: **Max Wicha, M.D., Director, University of Michigan Comprehensive Cancer Center, CGC 6302, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0942**. A non-discriminatory/Affirmative Action Employer.



EXTENDED SEARCH DIRECTOR NEW JERSEY SEA GRANT EXTENSION PROGRAM

The New Jersey Marine Sciences Consortium (NJMSC), a not-for-profit research and education institution, manages the *New Jersey Sea Grant College Program*. NJMSC seeks a qualified candidate to fill the vacancy of **Director, New Jersey Sea Grant Extension Program (NJSSEP)**. *New Jersey Sea Grant* desires to build a state-wide Extension network; therefore the primary focus of the successful candidate will be on program planning, funding and implementation. Other duties will include administrative responsibility for the biennial grant competition, interactions with Principal Investigators, and assisting the Director with SG Omnibus Proposal. Incumbent will manage outreach activities in programmatic areas of the Sea Grant Strategic Plan relevant to all NJ stakeholders. It is expected that the Director will hold an academic appointment at a Member Institution.

Minimum requirements are a Ph.D. degree with a specialty in (no order of preference): 1) coastal ecology, 2) environmental sciences, 3) coastal engineering or geology, 4) fisheries and/or marine biotechnology, or 5) marine policy and management. Administrative and interdisciplinary program experience and a solid record of publications and grantsmanship preferred.

A letter of intent, curriculum vitae, a brief statement of philosophy for coastal resources management, and names and addresses of three (3) references should be addressed to: **Dr. Michael P. Weinstein, President, New Jersey Marine Sciences Consortium, Sandy Hook Field Station, Bldg. #22, Fort Hancock, NJ 07732.**

Applications accepted until position is filled.

NJMSC is an Equal Opportunity/Affirmative Action Corporation. Proper documentation of identity and employability required at the time of employment.

Manager, Microarray Facility

As part of a strategic plan to expand its presence in the areas of genomics, proteomics and bio-informatics, Memorial Sloan-Kettering Cancer Center will establish a centralized, advanced resource for the analysis of gene expression and other applications in diagnostic and research genomics, especially as it applies to our quest for better methods to control and cure cancer.

We are looking for a dynamic scientist to assume day-to-day management of the new microarray core facility. The manager will play a key role in the development of the laboratory; train and supervise four staff members, manufacture and optimization of arrays, integration with bio-informatics resources, and offer expertise for experimental design and data validation. The Facility Manager will work closely with clinical and basic science researchers to design, execute and interpret a variety of experiments, utilizing the expanding microarray technology.

The successful candidate must have a Ph.D. (or equivalent) in molecular biology, biochemistry, analytical chemistry or engineering, hands-on experience with micro-arrays and relevant engineering/computer technologies, and some experience in most or all of the following: quantitative nucleic acid hybridization, fluorescent probes, PCR, cDNA preparation, instrumentation and automation, microtiter-based robotics, experimental design and data analysis. Two to three years of postgraduate training in academic or corporate research, attention to detail and accuracy, strong organizational and troubleshooting abilities, and good communication skills are required. Previous management and administrative experience is preferred.

Appointment will be made to the Laboratory (non-tenure) Track Faculty, equivalent to Assistant or Associate Research Professor at most universities. Salary and rank according to qualifications.

Please e-mail all inquiries, C.V. and names of three references to: **Dr. Paul Tempst, Professor and Chair, Microarray Search Committee, Memorial Sloan-Kettering Cancer Center, New York, NY 10021. E-mail: ptempst@mskcc.org. EOE/AA**



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Faculty Positions in Biology University of Maryland

The Department of Biology (<http://www.life.umd.edu/biology/index.html>) and the College of Life Sciences at the University of Maryland, College Park are beginning a period of major enhancement with the development of new research facilities and an expansion of the faculty. The Department of Biology is an integrative biology department – studying biological phenomena at the molecular, cellular, organismal, and community/population levels – in the context of evolution and the environment. We have 30 faculty with plans to expand to approximately 40 in the near future, more than 50 postdoctoral fellows, research scientists and faculty research assistants, and about 80 graduate students. We are focusing our plans for future growth and hiring around overlapping areas of strength in **Biodiversity, Neurobiology & Biophysics, and Evolutionary Developmental Biology**. The University will strengthen these areas by committing new resources and funding to campuswide initiatives in **Biodiversity, Neuroscience, and Cell and Developmental Biology**.

State-of-the-art core facilities for molecular biology, confocal and electron microscopy, and fluorescence imaging are available, and the possibility of interdisciplinary interactions with colleagues in the Departments of Entomology, Cell Biology and Molecular Genetics, and Chemistry and Biochemistry, and the University of Maryland Biotechnology Institute. Possibilities exist for participation in the **Biology** graduate program and graduate programs in Marine-Estuarine-Environmental Sciences and Sustainable Development and Conservation Biology and a number of interdisciplinary graduate programs. The beautiful College Park campus is located in suburban Washington D. C. We benefit from cooperative arrangements with nearby government research facilities, including NIH, USDA, FDA, and Smithsonian, and from the vibrant cultural life of a major metropolitan area.

We seek outstanding researchers who will develop vigorous externally funded research programs and contribute to our undergraduate and graduate teaching programs. We offer attractive start up packages and salaries commensurate with qualifications and invite applications from research teams and/or couples. Three or more tenure track/tenured positions at any rank are available in the following areas:

Cellular Physiology

We seek candidates investigating cellular and systems neurophysiology and membrane biophysics. The successful candidate may join interdisciplinary graduate programs in **Molecular and Cell Biology** and **Neuroscience and Cognitive Sciences** as well as participate in a new program initiative in **Neuroscience**.

Evolution of Development

We seek developmental and/or evolutionary biologists using modern functional approaches to study the evolution of developmental mechanisms in plants or animals. The successful candidate will become a part of a new departmental thrust in the area of **Evolutionary Developmental Biology**, may join interdisciplinary graduate programs in several different fields, and will be part of the program initiatives in **Biodiversity and Cell and Developmental Biology**.

Theoretical Ecology

We seek ecologists with preference for those with a demonstrated expertise in theory and modeling. The successful candidate will join an active group in ecology and evolutionary biology that has formed a new interdepartmental graduate program in **Behavior, Ecology, Evolution, and Systematics** and is supported by a program initiative in **Biodiversity**.

Please send a cover letter indicating the position you are applying for, your curriculum vitae, a summary of research interests and plans, reprints of three major publications, and the names and addresses (including email addresses) of four persons who can be contacted to provide letters of reference to: **Biology Faculty Positions, Dr. William R. Jeffery, Professor and Chair, Department of Biology, University of Maryland, College Park, MD 20742-4415.**

Applications will be accepted immediately and reviewed until the positions are filled. For best consideration, however, applications should be received by November 1, 2000. *Applications are especially encouraged from women and minorities. The University of Maryland is an EEO/Affirmative Action employer.*

POSITIONS OPEN

THREE FACULTY POSITIONS

The Department of Biological Sciences, Mississippi State University, invites applications for three nine-month, tenure-track **ASSISTANT PROFESSOR** positions beginning 16 August 2001.

Vertebrate Ecologist. We are seeking a broadly trained Terrestrial Vertebrate Biologist with research expertise in the areas of behavioral, evolutionary, or community ecology. (Search Committee Chair: **Dr. Christopher M. Taylor**; e-mail: ctaylor@ra.msstate.edu; Telephone: 662-325-8591).

Plant Ecologist. We are seeking an individual who uses quantitative approaches to study the ecology of plants. Preference will be given to applicants working at the community or landscape level. (Search Committee Chair: **Dr. Michael J. Sullivan**; e-mail: mjs2@ra.msstate.edu; Telephone: 662-325-7575).

Plant Systematist. We are seeking an individual who uses molecular phylogenetic methods and has a strong background in plant natural history. (Search Committee Chair: **Dr. Walter J. Diehl**; e-mail: wjdiehl@ra.msstate.edu; Telephone: 662-325-7576).

Qualifications include a completed Ph.D. in a relevant field and an established record of research productivity; teaching and postdoctoral experience are desirable. The successful candidates are expected to develop an externally funded research program and direct graduate students. Applications should include curriculum vitae, a concise statement of research and teaching interests, and up to three reprints. Three letters of reference should be sent to the appropriate Search Committee Chair:

Department of Biological Sciences
P.O. Drawer GY
Mississippi State University
Mississippi State, MS 39762

Screening will begin 1 November 2000 and will continue until the positions are filled. For more information, contact the appropriate Search Committee Chair or visit our website: <http://www.msstate.edu/Dept/BioSciences/bio.html>. Mississippi State University is an Affirmative Action/Equal Opportunity Employer.

ASSOCIATE PROFESSOR/FULL PROFESSOR. Chemistry Department, University of Missouri-Rolla. Applications and nominations sought for tenure-track Associate Professor/Full Professor in any area of chemistry that complements existing strengths of the Department/campus. Preferred starting date is September 1, 2001. The successful candidate will have a record of vigorous research activity. Responsibilities: teach undergraduate and graduate courses; conduct a strong, externally funded research program; direct graduate and undergraduate research; and interact effectively with faculty, staff, and students. Applications will be considered until position is filled. For additional information, e-mail: chem@umr.edu; website: <http://www.chem.umr.edu/>. Send application with curriculum vitae, statement of research and teaching plans, and names of three references to: **Human Resource Services, Reference Number R53242, University of Missouri-Rolla, 1202 North Bishop, 1870 Miner Circle, Rolla, MO 65409-1050.** University of Missouri-Rolla is an Affirmative Action/Equal Employment Opportunity Employer. Females, minorities, and persons with disabilities are encouraged to apply.

INVESTMENT ANALYST BIOTECHNOLOGY/LIFE SCIENCES INPUTS

Perform fundamental investment analysis on industry sectors and companies, focusing on providers of enabling services and solutions for drug discovery and the life science industry. Responsibilities include coverage of public companies, initiating and managing venture investments, and supporting corporate finance. Advanced degree in applicable science or medicine, an MBA, and five to 15 years of experience in biotechnology/pharmaceutical industry required. Visit website: www.fana.com for more information. Contact: **Allan Cohen**; e-mail: acohen@fana.com; FAX: 312-258-7609.

POSITIONS OPEN

FACULTY POSITION IN STRUCTURAL BIOLOGY

The Department of Molecular and Cellular Biochemistry at the Ohio State University seeks an outstanding individual at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level working in the general area of structural biology. The search will first and foremost seek to identify the strongest candidate, but some consideration will be made with regard to the University's identified need to develop X-ray crystallography of biological macromolecules. The responsibilities of the successful candidate will be to develop a strong and internationally recognized research program and to contribute to the teaching activities of the Department. A highly competitive start-up package and space in a modern, state-of-the-art research building will be available. The successful candidates are expected to develop an independent research program and participate in teaching to graduate/medical students. Applicants should submit curriculum vitae; selected reprints; description of research interests and goals; grant support (if applicable); and the names, addresses, and telephone/FAX numbers of three references to: **Chair, MLS Search Committee, Department of Molecular and Cellular Biochemistry, The Ohio State University, 333 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210-1218.** The search committee will begin reviewing applications October 16, 2000.

The Ohio State University is an Affirmative Action/Equal Opportunity Employer.

ENVIRONMENTAL TOXICOLOGY/ORGANIC. The Department of Chemistry seeks applicants for a new tenure-track position as **ASSISTANT PROFESSOR OF CHEMISTRY**, August 1, 2001. Applicant review will begin October 16, 2000. The position will remain open and applications will be accepted until an appointment is made. Campus interviews anticipated in early December. Successful candidate must have a Ph.D., be committed to instructional excellence, and prepared to engage in significant research and scholarship. Duties include teaching organic chemistry, environmental science, toxicology, and directing undergraduate research with chemistry and environmental science students.

Westminster College is a selective, residential, student-centered, Liberal Arts I institution with historical ties to the Presbyterian Church (U.S.A.). The College enrolls about 1,400 full-time undergraduate students and employs about 100 full-time faculty. Westminster College is located in beautiful western Pennsylvania and is within close proximity to both Pittsburgh and Cleveland. The Department boasts an ACS approved program, well-equipped laboratories, and a project-based advanced laboratory program.

Submit a letter of application, curriculum vitae, summary of research interests, and three letters of recommendation to: **Dr. Timothy Wooster, Chair, Chemistry Department, Westminster College, New Wilmington, PA 16172-0001.** You can visit our website: www.westminster.edu or contact me at e-mail: twooster@westminster.edu. Equal Opportunity Employer.

TENURE-TRACK FACULTY APPOINTMENT

Thomas Jefferson University has a tenure-track faculty appointment available at any academic rank. Applications will be accepted until the position is filled. In responding, please send curriculum vitae with a description of plans for an independent research program and request three references to send letters to: **Dr. Gerry Litwack, Chairman, Department of Biochemistry and Molecular Pharmacology, Jefferson Medical College, Thomas Jefferson University, 350 BLSB, 233 South 10th Street, Philadelphia, PA 19107.** Thomas Jefferson University is an Equal Opportunity Employer.

POSITIONS OPEN

DEVELOPMENTAL NEUROBIOLOGIST.

The Department of Neurosurgery at the University of Texas-Houston Health Science Center invites applicants for a tenure-track appointment at the **ASSISTANT PROFESSOR** level. The successful applicant will be expected to develop an independent research program based around an understanding of the genetic substrates of axonal growth during (1) embryonic and postnatal development and (2) following adult spinal cord injury. This researcher will also join a research team within the Department in establishing a multilevel approach to promote neuroprotection and regeneration following spinal cord injury. Excellent opportunities also exist for collaborations with Mission Connect, a research consortium founded by The Institute for Rehabilitation and Research (TIIR) whose research is focused on mechanisms of recovery after spinal cord injury. This position offers very competitive start-up funds for research and ample laboratory space with new, state-of-the-art facilities to allow the successful applicant to be at the cutting edge of neuroscience research. Interested candidates should send curriculum vitae, a select list of reprints, a statement of research interests/goals, and names of three references to: **Dr. Ray Grill, Department of Neurosurgery, University of Texas-Houston, 6431 Fannin, Suite 7.142B, Houston, TX 77030. Telephone: 713-500-6132; FAX: 713-500-7787. E-mail: Raymond.J.Grill@uth.tmc.edu.** The review of applications will begin immediately and continue until the position is filled. The University of Texas-Houston is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT DIRECTOR CHEMISTRY AND CHEMICAL BIOLOGY

The Department of Chemistry and Chemical Biology of Stevens Institute of Technology is seeking to fill the position of Department Director (equivalent of Head). The successful candidate will have a Ph.D. in either a chemical or a molecular biological science; will have an active, funded research program; and will have at least 10 years of experience in either an academic, industrial, or governmental setting. Previous managerial experience is also desirable. Stevens Institute of Technology is actively engaged in building a research and teaching environment that fosters technogenesis, i.e., the process by which new and innovative technologies are created, developed, and brought to market by faculty/students and industrial colleagues. It also has a strong commitment to the development of intramural collaborative research programs. It is expected that the candidate will collaborate actively with other Stevens faculty in research, will contribute to the teaching mission of the Department, and strive for excellence in both teaching and research. Appointment will be to a tenure-track position at the rank of **ASSOCIATE** or **FULL PROFESSOR** depending on experience. To guarantee full consideration, applications should arrive by November 1, 2000. Please send curriculum vitae with cover letter and arrange for three letters of recommendation to be sent to: **Director Search, Department of Chemistry and Chemical Biology, Stevens Institute of Technology, Hoboken, NJ 07030.**

ASSISTANT PROFESSORSHIPS IN INORGANIC, ORGANIC, AND PHYSICAL CHEMISTRY Department of Chemistry and Chemical Biology Harvard University

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: **Professor James Anderson, Chairman, Department of Chemistry and Chemical Biology, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902.** Harvard University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and minority group members.

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Are you ready to change the future of healthcare?

The human genome effort is at the finish line. Orchid is a leader in what's next—the post-genomics era. We are developing low-cost, high-throughput tools to analyze single nucleotide polymorphisms (SNPs) in order to determine the most effective therapeutic applications of tomorrow.

Assay Research Biochemist: Ph.D./M.S. with 2-4 years experience in Biochemistry or related field to develop new and refine existing biochemical assays for use in solution-phase polymorphism analysis assays. Experience in the details of biochemical assay design and implementation, particularly relating to DNA and/or enzymology. Knowledge of relevant analytical methods: optical spectroscopy including fluorescence, microscopy, and imaging.

Bioautomation Engineer: B.S./M.S. in Electrical Engineering or Chemical Engineering preferred. Science background also acceptable with 5+ years experience implementing, supporting and diagnosing/solving problems in chemistry/biochemistry instrumentation/automation applications. Responsible for assisting in the identification, development, installation and maintenance of instrumentation and automation used in PCR, genomic and other molecular biology applications.

Scientist Research Tech Services: BS in Analytical Chemistry, Engineering or Biochemistry with experience in instrument construction and evaluation protocols to provide instrumentation support for genomic applications.

European Opportunities: Orchid is expanding its European operations. There will be key positions available in the areas of Technical Applications, Pharmacogenetics, Sales and Business Development, where experience in high-throughput PCR, robotic systems and genetic analysis is required.

Development Scientist: Ph.D./M.S. in Biochemistry/Molecular Biology or related field with 1-3 years experience in an industrial environment to design, execute and analyze experiments in support of the development of new products for genotyping. Broad knowledge of molecular biology methods including DNA Sequencing, Mutation Analysis and DNA Enzymology is required. Scientific graphing, statistical design of experiments and DNA sequence analysis necessary.

Research Associates (2 positions): Application Development – B.S./M.S. in Biochemistry/Molecular Biology with experience in synthetic chemistry laboratory procedures to design scope and limitations of wide range of biochemistry and chemistry on microfabricated structures. **DNA Synthesis –** B.S./M.S. in Organic or Analytical Chemistry with experience in automated DNA Synthesis and Analytical Methods Development to develop and implement DNA Synthesis in microfabricated structures.

Orchid offers a competitive compensation package for all employees including a base salary, bonus potential and stock options and a comprehensive benefits plan. Send your resume with salary requirements to: **Human Resources, Orchid BioSciences, Inc., 303 College Road East, Princeton, NJ 08540; Fax: (609) 750-2250; E-mail: hr@orchid.com.** An equal opportunity employer.

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FACULTY POSITIONS

PROGRAM IN MOLECULAR MEDICINE UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

A major expansion of the Program in Molecular Medicine at the University of Massachusetts Medical School includes immediate openings for SENIOR TENURED and JUNIOR TENURE-TRACK faculty positions. Rank will be commensurate with ability and experience, and both basic and physician scientists are eligible. The laboratories for the Program are housed in a modern building of approximately 80,000 square feet with state-of-the-art instrumentation. Core facilities for tissue culture, media preparation, DNA sequencing, protein chemistry and proteomics, fluorescence-activated cell sorting, digital imaging and confocal microscopy, genomics and transgenic/knockout mice are available. The positions will be highly competitive with regard to start-up funds, laboratory space and salary.

The Program seeks individuals of outstanding research potential in the broadly defined areas of cell, developmental, molecular or structural biology. The areas of genomics, bio-informatics, and chemical biology are also of particular interest.

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

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

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Employer*

POSTDOCTORAL FELLOWSHIPS

PROGRAM IN MOLECULAR MEDICINE UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

Postdoctoral positions are available for research training with faculty members of the Program in Molecular Medicine at the University of Massachusetts Medical School. Research groups in the Program are highly interdisciplinary and collaborative. All faculty laboratories are located in a modern research building well equipped with state-of-the-art instrumentation for work in molecular and cell biology, structural biology and chemistry. For a more detailed description of our Program, please see our web page at <http://www.umassmed.edu/pmm>. Faculty members include:

Silvia Corvera	Membrane Trafficking and Signaling
Michael P. Czech	Insulin Receptor Signaling
Roger J. Davis	Signal Transduction and Map Kinases
Stephen J. Duxey	Mitotic Control, Centrosomes, Cancer
Michael R. Green	Eukaryotic Gene Regulation
Y. Tony Ip	Drosophila Development and Immune Response
David Lambright	Structural Biology of Intracellular Signaling/Trafficking
Craig Mello	Developmental Biology and RNA Interference
Craig Peterson	Chromatin, Transcription, and DNA Repair
Aldo Rossini	Autoimmunity, Immunology, Transplantation, Diabetes
Mario Stevenson	Viral Etiology of AIDS
John L. Sullivan	Pathogenesis of HIV and Human Herpes Viruses
William Theurkauf	Cell Cycle/Embryonic Patterning
Biliang Zhang	Combinatorial Synthesis and RNA Catalysis
G. Wayne Zhou	Structure and Function of Protein Phosphotyrosine Phosphatases

Applicants should send curriculum vitae, statement of research interests, and names and addresses of three references to the individual faculty member of interest or to:

**Dr. Michael P. Czech, Director
Program in Molecular Medicine
University of Massachusetts Medical School
373 Plantation Street
Worcester, MA 01605**

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POSITIONS OPEN

ASSISTANT PROFESSOR EVOLUTIONIST/MOLECULAR BIOLOGIST

The Department of Biological Sciences at Mary Washington College is seeking an Evolutionist/Molecular Biologist for a tenure-track appointment at the Assistant Professor level beginning with the fall semester of 2001. Applicants are required to have a Ph.D. or equivalent terminal degree and must be committed to excellence in teaching. Course responsibilities will include molecular biology, evolution, and general biology. The area of research interest should complement those of current members of the Department.

Mary Washington College is a liberal arts and sciences college located 50 miles south of Washington, D.C. Interested persons must submit curriculum vitae, transcripts, and brief statements of teaching philosophy and research goals, and must arrange to have three letters of reference sent directly to: **Rosemary Barra, Department of Biological Sciences, Mary Washington College, 1301 College Avenue, Fredericksburg, VA 22401**. Deadline for receipt of applications is October 16, 2000, by 5 p.m. Postmarks will not be honored. Visit the College's website: www.mwc.edu. *Mary Washington College is deeply committed to Affirmative Action and encourages minorities and women to apply.*

RESEARCH ASSISTANT PROFESSOR

The Division of Geographic Medicine is seeking a new faculty member to address issues in molecular parasitology. Current faculty interests include malaria, toxoplasmosis, filaria, onchocerciasis, HIV, pneumocystis, and other opportunistic infections. The ideal faculty member would bring a complementary interest to the department, and there is a special interest in expanding into trypanosomiasis. This full-time, nontenure-track faculty position is suitable for someone who has had postdoctoral training and several key publications, as well as research ideas mature enough to garner independent funding. The incumbent will be expected to raise his or her own salary through extramural funds within 12 to 18 months of hiring. Expected start date is October 1, 2000. Interested persons should contact:

Sten H. Vermund
Professor and Director
Division of Geographic Medicine
BBRB 206
Birmingham, AL 35294-2170
Telephone: 205-975-7700
FAX: 205-934-5600
E-mail: sten@uab.edu

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

FACULTY POSITION IN PROTEOMICS UNIVERSITY OF CALIFORNIA LOS ANGELES

The School of Medicine and the College of Letters and Science at UCLA seek a candidate to develop a vigorous and innovative research program in the general area of proteomics, protein chemistry, and gene discovery, possibly overseeing the establishment of a state-of-the-art mass spectrometry facility. The appointment can be at the level of **ASSISTANT PROFESSOR** (tenure track), **ASSOCIATE PROFESSOR** (tenured), or **FULL PROFESSOR**. The position is associated with the Departments of Biological Chemistry (School of Medicine) and Chemistry and Biochemistry (Letters and Science) and the UCLA-DOE Laboratory of Structural Biology and Molecular Medicine.

Applications should include curriculum vitae, statements of research accomplishments and future research plans, and the names and addresses of three references. Consideration of applications begins November 1, 2000, and continues until the search is completed. Please send materials to: **Proteomics Search Committee, UCLA-DOE Laboratory, UCLA, 611 Charles Young Drive East, Box 951570, Los Angeles, CA 90095-1570**. *UCLA is an Equal Opportunity Employer.*

POSITIONS OPEN

EVOLUTIONARY BIOLOGIST

The Department of Biology invites applications for a tenure-track appointment at the **ASSISTANT PROFESSOR** level to begin August 2001. We seek a Biologist who studies evolution using molecular tools and who is committed to teaching and research with undergraduate students at a small public liberal arts college. Teaching responsibilities include upper-division courses in molecular evolution and population ecology, occasional introductory courses for nonmajors, participation in the first-year sequence for majors, and a second-year course in ecology and evolution. Applicants should have a Ph.D. before the starting date.

St. Mary's College of Maryland, a state-supported Carnegie Baccalaureate Liberal Arts institution located 70 miles southeast of Washington, D.C., in St. Mary's City, is Maryland's designated public honors college for the liberal arts. With highly selective admissions policies, academically talented students, and a rigorous curriculum, we have been labeled a "public Ivy." St. Mary's faculty benefit from a comprehensive program of support for scholarship, research, travel, curriculum development, and sabbaticals for pre-tenure and tenured faculty. The quality of life is enhanced by the recreational opportunities of the Chesapeake region and proximity to Washington, D.C., and Baltimore.

To apply, please submit a cover letter, curriculum vitae (with e-mail address), and three references to: **Dr. Robert W. Paul, Chairman, Department of Biology, 18952 E Fisher Road, St. Mary's College of Maryland, St. Mary's City, MD 20686-3001**. Telephone: 301-862-0211; FAX: 301-862-0996; website: www.smcm.edu. Review of applications will begin immediately and continue until the position is filled. *St. Mary's College of Maryland is an Affirmative Action/Equal Opportunity Employer.*

FUNGAL CELLULAR/ MOLECULAR BIOLOGY UNIVERSITY OF CALIFORNIA, RIVERSIDE

The Department of Plant Pathology invites applications for a tenure-track **ASSISTANT PROFESSOR** position to research fundamental issues in the growth, development, physiology, or pathology of filamentous fungi, using plant pathogens or saprophytes. The Department has a strong mycology component and history of support for basic and applied research. Graduate and undergraduate teaching is expected. A Ph.D. and research accomplishments are required. Submit curriculum vitae, statements of research and teaching interests, and three reference letters to: **Dr. Howard Judelson/FCB, Department of Plant Pathology, University of California, Riverside, CA 92521 U.S.A.** Evaluations begin December 1, 2000, but position remains open until filled. Department information at website: www.plantpathology.ucr.edu.

The University is an Affirmative Action/Equal Opportunity Employer.

MICROBIAL EVOLUTION AND GENOMICS

The Department of Biology and Biochemistry at the University of Houston invites applications for **TENURE-TRACK FACULTY POSITIONS** at any rank. We are especially interested in candidates using computational approaches to address questions relating to genomics, microbial evolution, or evolution of infectious disease. Candidates will interact with our existing groups in ecology and evolution, infectious diseases, and astrobiology. The positions require a Ph.D. and postdoctoral experience. Faculty are expected to develop nationally competitive research programs and participate in graduate and undergraduate teaching. Submit curriculum vitae, a research plan, and have three letters of recommendation sent to: **Computational Evolution Search Committee, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5513**. Applications will be reviewed as they are received. *University of Houston is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.*

POSITIONS OPEN

ASSISTANT PROFESSOR TERRESTRIAL ECOSYSTEM/ PLANT ECOLOGIST

University of California, Santa Barbara

The Department of Ecology, Evolution, and Marine Biology (EEMB) seeks an ecologist for a tenure-track position for research and teaching in terrestrial ecosystem/plant ecology. We seek candidates whose research is focused on terrestrial ecosystems and plant community dynamics. We are especially interested in applicants whose research is aimed at understanding ecosystem processes and who are solidly grounded in plant ecology. The scale of research can vary from the plot to the landscape. Examples of potentially relevant areas include but are not limited to interactions between community composition/diversity and species invasions with carbon and nutrient cycles, changing CO₂/climate effects on ecosystems, and landscape/soil controls on community dynamics. Teaching responsibilities will include instruction in ecosystem and plant ecology at both the undergraduate and graduate levels. Applicants who have completed at least one year of postdoctoral research will be preferred. Submit curriculum vitae, selected reprints, a brief description of previous and anticipated research, and arrange to have at least three letters of reference sent to: **Ecosystem Ecology Search Committee, Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, CA 93106**. Review of applications will begin November 15, 2000, and will continue until the position is filled. *UCSB is an Equal Opportunity/Affirmative Action Employer.*

SENIOR PRODUCT MANAGER NUCLEIC ACID PURIFICATION

Eppendorf Scientific, Inc. is expanding its dynamic product management team and is seeking an individual to be responsible for the major part of our DNA purification kit product line. This will involve developing (a) future product strategy(ies) to increase the success of this product group in the market. Must possess an M.S. degree in molecular biology or biology/biochemistry with molecular biology laboratory experience. Ph.D. a plus. Ideal candidate should have several years of experience in marketing and, if possible, laboratory product sales (preferably molecular biology reagents and kits). Knowledge of Spanish, French, and/or German desired. Home office will be at the headquarters of Brinkmann Instruments (a subsidiary of Eppendorf) in Westbury, Long Island, New York. Excellent benefits, including 401(k) and profit sharing plans. Send, FAX, or e-mail résumé with salary requirements to:

Eppendorf Scientific, Inc.
One Cantigue Road
Westbury, NY 11590
Attention: Mrs. M. Smith/
Human Resources Department
FAX: 516-334-4772
E-mail: msmith@brinkmann.com

We are an Equal Opportunity Employer and will only contact applicants we plan on interviewing.

PHARMACOLOGIST SCHOOL OF PHARMACY UNIVERSITY OF THE PACIFIC

Tenure-track **ASSISTANT PROFESSOR** position starting June 2001. Ph.D. is required with training/research experience in pharmacology. Successful candidate will participate in team-taught pharmacology and pathophysiology courses for pharmacy students and in area of specialty for graduate (M.S./Ph.D.) students. Strong commitment to both teaching and research expected. Send statement of teaching and research interests, curriculum vitae, and three letters of reference to: **Jim Blankenship, Chair, Department of Physiology/Pharmacology, School of Pharmacy and Health Sciences, University of the Pacific, Stockton, CA 95211**. Visit us at website: <http://www1.uop.edu/pharmacy/search/>. Review will begin November 10, 2000. *The University of the Pacific is an Equal Opportunity/Affirmative Action Employer encouraging excellence through diversity.*



Illumina, Inc. is developing next generation tools that will permit the large-scale analysis of genetic variation and function.

We are seeking outstanding individuals for challenging positions in a variety of areas. Some specific positions are listed below. Please see www.illumina.com for additional openings and information. Resumes should be sent to jobs@illumina.com or faxed to 858-587-4297. Please specify the position you wish to apply for at Illumina.

DIRECTOR, Bioinformatics, MC006

You will be responsible for leading a diverse bioinformatics program centered on microarray technology. You will develop microarray information systems, including databases, data collection, analysis, and visualization tools, as well as manage software product development. **Qualifications:** Ph.D. in Bioinformatics or related field with 8+ years experience in bioinformatics/computational genomics, including algorithm and software development, and database design and implementation. Excellent analytical and organizational skills, with an exceptional track record of scientific and technical accomplishment. Expertise in microarray data analysis and data management is a strong plus, as is experience in commercial software development.

SCIENTIST/ENGINEER, Genomics Automation, MC012

You will develop and implement a high-throughput microtiter-format sample processing laboratory system and methods to interface with highly parallel microarray analysis. The initial applications include large-scale SNP genotyping and quantitative RNA profiling, and will require high-throughput nucleic acid purification, amplification and labeling. **Qualifications:** PhD in Engineering or Molecular Biology or equivalent experience with a minimum of 5 years experience in industrial-scale genomics automation and operations. Proven expertise in designing, scaling and trouble-shooting methods for industrial-scale nucleic acid sample purification and processing. Detailed knowledge of microtiter-related robotics, solid-liquid phase separation, software and data management systems.

SCIENTIST, Oligonucleotide Chemist, DB001

You will be a member of an interdisciplinary team developing and optimizing Illumina's array technology. You will be responsible for developing and optimizing material requirements for novel immobilization procedures used in biomolecule attachment to solid surfaces. **Qualifications:** PhD in Analytical Chemistry or related discipline with 2 years industrial work or postdoctoral experience. A strong analytical background in physical characterization of synthetic oligonucleotides using MS, CE, HPLC, and gel electrophoresis. Publication record in nucleic analysis or related field.

DIRECTOR, Scientific Operations, DB006

You will staff and direct an interdisciplinary group capable of automating and integrating sample preparation, bead-array assay and information processing and storage. You will develop and implement a high-throughput microtiter-format sample-processing laboratory capable of supporting both an in-house information business and a service business for external customers. Initial applications include large-scale SNP genotyping and quantitative RNA profiling, and will require high-throughput nucleic acid purification, amplification and labeling. **Qualifications:** PhD in Molecular and Engineering with 5 years experience in industrial-scale genomics operations. Proven expertise in designing, scaling, and trouble-shooting methods for industrial-scale nucleic acid sample purification and processing. Detailed knowledge of microtiter-related robotics, solid-liquid phase separations and data management systems. Experience with high-throughput sequencing, genotyping or microarray technologies an advantage.

Illumina, Inc. offers a highly rewarding work environment with great potential for personal career growth. We offer competitive salaries, stock option packages, and great benefits.

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PHARMACIA

Though our merger is based on hard science, we're

CREATING SPECIAL EFFECTS.

Changing the big picture of the pharma industry, the merger of industry leaders Monsanto and Pharmacia & Upjohn has resulted in the formation of a new first-tier organization known as Pharmacia Corporation. Uniting the ambitions and talents of 60,000 professionals under our \$17 billion company with an R&D pipeline of exceptional strength and depth allows us to have a positive effect upon countless lives. With the breakthrough drug, Celebrex®, Pharmacia Corporation has become the leader in rheumatoid arthritis therapy. We plan to build on this success to expand our leadership in the arthritis and inflammation area and have set the goal of becoming a world leader in osteoarthritis as well. Discover the unique effect your skills can have on these efforts by joining our team in **suburban Chicago**.

CELL BIOLOGIST/ IMMUNOLOGIST • Job Code 00-0771

We are seeking a senior scientist with a strong background in inflammation research and experience in molecular approaches to provide cell biology expertise and leadership as a member of our growing Arthritis & Inflammation team. You will study the mechanisms of action and side effects of novel drug candidates as well as identify new targets for drug development in the arthritis/inflammation area. Requirements include a Ph.D. in Immunology, Cell Biology or related field combined with 5+ years of postdoctoral experience, preferably in inflammatory diseases drug discovery; in-depth working knowledge of in vitro and in vivo assays of inflammatory mediators, immune function, and signaling pathways as well as experience in molecular and cellular assays. The successful candidate will be an independent, creative thinker with the demonstrated ability to initiate approaches and with the skills/drive to champion novel projects in a multidisciplinary team environment. State-of-the-art research skills, knowledge of the literature, and a strong publication record are critical to your success.

CARTILAGE BIOCHEMIST • Job Code 00-3008

We are seeking a senior scientist with a strong background in biochemistry and experience in molecular approaches to investigate mechanisms of cartilage degradation and repair in arthritis. Working with our growing Arthritis & Inflammation team, the successful candidate will identify markers of osteoarthritis and cartilage degradation/repair; identify novel drug candidates and their mechanism of action; and identify new targets for drug development in the osteoarthritis area. Requirements include a Ph.D. in Biochemistry or related field combined with 3+ years of postdoctoral experience, preferably in the area of cartilage matrix metabolism. State-of-the-art research skills, knowledge of the literature, and a strong publication record are essential. Background in proteases involved in matrix degradation is desirable as is a working knowledge of in vitro and in vivo models of cartilage degradation. The candidate we select will be an enthusiastic and creative scientist with the skills/drive to initiate approaches in a multidisciplinary team environment.

We offer a competitive salary and benefits package including tuition reimbursement and 401(k). **For fastest consideration, please submit your resume in scannable format, with appropriate Ad Code noted on your cover letter, to: monsanto@aon-hros.com, or mail to: Monsanto, Ad Code (insert from above), PO Box 1262, Findlay, OH 45840.** EEO/AA Employer M/F/D/V. **For more information and other vacancies, please visit our website at www.pharmacia.com and click on Monsanto.**

PHARMACIA

POSITIONS OPEN

CELL BIOLOGY BUCKNELL UNIVERSITY

Applications are invited for a tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level (in accordance with University policy, up to a maximum of three years may count toward tenure) beginning August 2001. Ph.D. required. Applicants should have expertise in confocal microscopy. Teaching responsibilities will include an introductory course in cellular and molecular biology, an upper-division course in the area of expertise, and supervising undergraduate research. Cover letter addressing teaching philosophy and research goals, curriculum vitae, and three letters of recommendation should be submitted to:

Dr. Wayne McDiffett, Chair
Biology Department
Bucknell University
Lewisburg, PA 17837
E-mail: mcdiffett@bucknell.edu
Telephone: 570-577-1124
FAX: 570-577-3537
Website: <http://www.bucknell.edu/departments/biology>

Review of applications will begin on October 23, 2000. The search will remain open until the position is filled. *Bucknell University encourages applications from women and members of minority groups. Equal Employment Opportunity/Affirmative Action.*

ASSISTANT/ASSOCIATE PROFESSOR BEHAVIORAL NEUROSCIENCE

Tenure-track **FACULTY OPENING** in the Department of Behavioral Neuroscience, School of Medicine, Oregon Health Sciences University (OHSU). We seek an individual with an outstanding research record who possesses the ability to develop and maintain an active, extramurally funded research program in an area complementary to current faculty interests. The specific area of behavioral research expertise is open. The appointee will join the faculty at OHSU and affiliated Portland VA Medical Center in training graduate students, Postdoctoral Fellows, and medical students in behavioral neuroscience supported by NIH training grants and individual research grants. Candidates should have a Ph.D., M.D., or equivalent degree; postdoctoral experience; and demonstrated ability to conduct independent research. Candidates should send application letter, curriculum vitae, statement of research interests, recent reprints, and arrange to have three letters of recommendation sent to: Christopher L. Cunningham, Ph.D., c/o Ginger Ashworth, Department of Behavioral Neuroscience L470, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098. Website: <http://www.ohsu.edu/som-BehNeuro/>. *OHSU is an Affirmative Action/Equal Opportunity Employer.*

University of New England's Life Sciences Department invites applications for two nine-month **ASSISTANT PROFESSOR** tenure-track faculty positions in genetics (starting January 2001 or August 27, 2001) and cellular/molecular biology (starting August 27, 2001). Successful candidates must have Doctoral degree, maintain externally funded research programs that provide undergraduate students with research experience, and have demonstrated excellence in teaching and a willingness to offer courses not only in their respective fields but also to periodically teach general biology in our integrated Freshmen Learning Community. Preference for applicants whose research complements our major programs: medical biology, marine biology, and environmental science. Submit curriculum vitae, transcripts, statement of teaching philosophy, statement of research interests and goals, and have three letters of evaluation sent to: David A. Sandmire, M.D., Department of Life Sciences, University of New England, 11 Hills Beach Road, Biddeford, ME 04005. See our website: <http://www.une.edu> for further job information. Applications reviewed until the positions are filled. *University of New England is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS Synthetic Organic Chemistry, Natural Products Discovery, and Mechanistic Enzymology The University of Texas Southwestern Medical Center

The Department of Biochemistry at The University of Texas Southwestern Medical Center announces the opening of up to three tenure-track appointments. We are particularly interested in Ph.D. and/or M.D./Ph.D. scientists having expertise in (1) synthetic organic chemistry; (2) the isolation and identification of novel, bioactive natural products and/or the exploitation of new techniques to achieve molecular diversity; or (3) mechanistic enzymology. University of Texas Southwestern maintains state-of-the-art facilities and employs a faculty including four Nobel Laureates and fourteen members of the National Academy of Sciences. The Biochemistry Department offers a vibrant environment for interdisciplinary research, attractive start-up support, and participation in graduate-level teaching. For more information, visit the Biochemistry Department website: <http://biochemistry.swmed.edu>. Applicants should submit curriculum vitae, description of research interests, and the names of three references by October 31, 2000, to: Steven McKnight, Chair, Department of Biochemistry, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75390-9038. *The University of Texas Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.*

BIOGEOCHEMISTRY/ENVIRONMENTAL PHYSIOLOGY

The University of the South, also known as Sewanee, invites applications for a **TENURE-TRACK ASSISTANT PROFESSOR** in the area(s) of environmental physiology and/or biogeochemistry. The successful candidate will teach courses in his or her area of specialty, involve undergraduate students in a vigorous research program, and participate in the introductory biology program. Candidates should be broadly trained in biology and should have an appreciation for the liberal arts tradition in education. The University has a highly selective program with an undergraduate enrollment of 1,300 and is located on a beautiful and biologically rich 10,000-acre campus on Tennessee's Cumberland Plateau. More information about the position can be found at website: <http://www.sewanee.edu/biology/>. Review of applicants will begin on November 1, 2000. Send a letter of application, curriculum vitae, transcripts, statements of teaching and research interests, and three letters of reference to: Dr. Nancy J. Berner, Chair, Biology Department, 735 University Avenue, The University of the South, Sewanee, TN 37383. E-mail: nberner@sewanee.edu. *The University of the South is an Equal Opportunity Employer. Minorities and women are encouraged to apply.*

The Department of Psychology at Michigan State University seeks applications for an academic-year, tenure-track position at the rank of **ASSISTANT PROFESSOR** effective August 16, 2001. We seek a Scientist with interests in cognitive development, social development, or developmental psychobiology to complement our strengths in cognitive science, social-personality psychology, or behavioral neuroscience. We are interested in candidates in one of these areas who have demonstrated the potential to be productive researchers and effective teachers at both the undergraduate and graduate levels. Investigators with postdoctoral research experience are especially encouraged to apply, as are women and members of minority groups. Review of applications will begin November 1, 2000, and continue until the position is filled. Applicants should send curriculum vitae, representative reprints/preprints, and three letters of recommendation to: Hiram E. Fitzgerald, Ph.D., Chair, Developmental Search Committee, Department of Psychology, Michigan State University, East Lansing, MI 48824-1117. *Michigan State University is an Affirmative Action/Equal Opportunity Institution.*

POSITIONS OPEN

FACULTY POSITION PLANT FUNCTIONAL GENOMICS The Pennsylvania State University

The Department of Biology at Penn State invites applications for a tenure-track faculty position in plant biology at the **ASSISTANT PROFESSOR** level. We are particularly interested in applicants with research interests that use approaches such as expression profiling, high-throughput sequencing, and genetics to address questions of plant signal transduction or development. Interest in interdisciplinary research collaboration with existing faculty is encouraged. Applicants should have a strong record of creative research and be committed to teaching at the undergraduate and graduate levels. For further information about this position and the Department, see website: <http://www.bio.psu.edu/General/employment/Genomics/>.

To apply, please submit current curriculum vitae and list of publications, a statement of research interests and plans, and arrange for three letters of reference to be sent on your behalf to the Committee Chair. Application reviews will start October 20, 2000, with appointment beginning in the autumn of 2001.

Send application materials to: Chair, Plant Functional Genomics Search, 208 Mueller Laboratory, Box 5, The Pennsylvania State University, University Park, PA 16802. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT/ASSOCIATE PROFESSOR ECOLOGY POSITIONS

The Department of Biological Sciences at Louisiana State University and A&M College, Baton Rouge, invites applications for two anticipated tenure-track positions in ecology, one at the Assistant Professor level and one at the Assistant or Associate Professor level, available August 2001. We seek ecologists who will complement our Departmental strengths in systematics, ecology, and evolutionary biology. Applicants are encouraged to visit our website: <http://www.biology.lsu.edu>. The successful candidates are expected to have a Ph.D. or equivalent degree and postdoctoral experience in ecology or related field. They will be expected to develop strong, competitively funded research programs, direct student research, and teach at the graduate and undergraduate levels.

Review of applications will begin October 23, 2000, and will continue until a suitable candidate is identified. The application, consisting of curriculum vitae, one-page statements of research and teaching interests, and three letters of recommendation, should be sent to: Ecology Search, c/o Dr. John Fleeger, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA 70803 U.S.A. E-mail inquiries may be sent to: zoflee@lsu.edu. Reference Log Number 0370.

Louisiana State University is an Equal Opportunity/Equal Access Employer.

The University of Massachusetts Medical School's Department of Pathology is currently recruiting for the following: immunology faculty positions. Applications are invited for tenure-track faculty positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Candidates are sought with research interests in immunology to complement a growing immunobiology research program including Drs. Kenneth Rock, Ray Welsh, Leslie Berg, Cynthia Chambers, and Joonsoo Kang. Specific research areas include but are not limited to immunobiology of receptors, signal transduction, and gene regulation; cell biology of accessory cells; tolerance and autoimmunity; and tumor immunobiology. Selection will be based on excellence in research and the potential to maintain an outstanding research program.

Applicants should send curriculum vitae, description of research accomplishments and future objectives, and names and addresses of three references to: Dr. Kenneth L. Rock, Chairman, Department of Pathology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655. *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer and encourages applications from female and minority candidates.*

RESEARCH SCIENTIST

Reporting directly to the Chief Science Officer, this individual will develop cutting-edge quantitative microscopy-based applications using multi-color immunocytochemistry, in-situ hybridization and other cell/tissue-based methodology. Must possess Ph.D.-level training in Molecular/Cell Biology or related discipline, including Immunology or Virology/Microbiology. Also requires a minimum 3 years' postdoctoral experience or equivalent. Outstanding working knowledge of contemporary cell and molecular biology is essential, along with significant accomplishment in human or experimental pathobiology. A capacity for translational research is highly desirable, particularly in the area of quantitative microscopy for cell or tissue-based investigation.

ChromaVision Medical Systems, Inc. offers a fun and progressive work environment as well as a highly competitive compensation and benefits package including 401(k). Please send your resume and salary requirements to: **ChromaVision Medical Systems, Inc., 33171 Paseo Corveza, San Juan Capistrano, CA 92675; Fax: (949) 443-3372; E-mail: EmpApp@chromavision.com** EOE

www.chromavision.com

Sigfried and Janet Weis Center for Research Geisinger Clinic SENIOR AND STAFF SCIENTISTS Human Genetics Research

The Weis Center for Research, Geisinger Clinic, is enhancing its existing strengths in cellular and molecular biology by establishing a program in **Human Genetics Research**. Outstanding candidates are sought for STAFF SCIENTIST (equivalent to Assistant or Associate Professor) and/or SENIOR SCIENTIST (equivalent to Professor) positions. The Weis Center is located on the Danville campus of the Geisinger Medical Center, a tertiary care teaching hospital. Geisinger Clinic and Geisinger Medical Center are part of the Geisinger Health System, an integrated health service organization dedicated to enhancing quality of life through a balanced program of patient care, education, research and community service.

The Weis Center is a modern biomedical research facility that includes 65,000 square feet of laboratory, office, animal facility and conference areas. The Center is located in a semi-rural area that affords an outstanding quality of life plus convenient access to major metropolitan areas. We are seeking candidates with proven records of accomplishment in conducting innovative research that addresses medically important problems at the genetic level. Applicants should have a Ph.D. and/or M.D. degree and two or more years of postdoctoral experience. While the primary appointment will be in the Weis Center for Research, physician candidates are eligible for joint appointment in an appropriate clinical department. The primary criterion for selection will be the quality of the applicant's research as evidenced by publications in peer-reviewed journals. Candidates for Senior Scientist positions are also expected to have a history of extramural funding. Substantial resources are available for start-up and ongoing research support. Qualified individuals should submit curriculum vitae, statement of research interests, and the names and addresses of three references to: **Ms. Kristin Gaul (DJC-Genetics), Sigfried and Janet Weis Center for Research, Geisinger Clinic, 100 North Academy Avenue, Danville, PA 17822-2600.**

~Affirmative Action/Equal Opportunity Employer~

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ENTREMED

EntreMed, Inc., The Angiogenesis CompanyTM, is a clinical-stage biopharmaceutical company that discovers, develops and commercializes antiangiogenic therapeutics for the treatment of diseases such as cancer and heart disease. Our growth has led to the following job opening:

Drug Discovery Research Scientist

The successful candidate will be a creative and motivated member of an active Discovery Research team. Successful applicant will develop a basic research program leading to the identification and evaluation of novel targets for modulation of angiogenesis. Experience in inflammation and inflammatory models is required; candidates with experience in vascular biology are also encouraged to apply. Competency in molecular biology techniques is desirable. Applicant should hold a Ph.D. in the biological sciences and 3-5 years postgraduate experience.

EntreMed offers a competitive salary and benefits package, a supportive and challenging working environment and opportunities for professional growth. Qualified applicants should submit a resume with current salary and three professional references to:

**Human Resources Department
9640 Medical Center Drive, Rockville, MD 20850
FAX: (301) 315-2437
Email: pattys@entremed.com
No Phone Calls Please
EOE M/F/D/V
Please visit our web site at **www.entremed.com****

NeoPharm

NeoPharm is a biopharmaceutical company dedicated to the discovery and characterization of new and innovative cancer drugs for therapeutic applications. Our continued expansion in various therapeutic programs has created the following opportunities.

Assistant Director/Manager – Process Development

Individual to improve and develop formulations leading to scale-up support for non-clinical and clinical studies. Manage the pre-manufacturing stage of formulation development with contract facilities. Supervise the cGMP production of drug candidates. Candidate will be responsible for regulatory issues regarding IND and NDA submissions. Must possess 5+ years experience in product development of anticancer drugs and protein drugs. Strong working knowledge of different formulations/delivery systems, excellent written and oral communication skills and FDA/cGMP requirements are essential. Ph.D. or equivalent degree in related field. Please include Job code: IA-4001.

Assistant Director/ Manager – Product Development/ Regulatory Affairs

This position will take a leadership role in developing stable liquid and lyophilized formulations and manufacturing processes and implement them for scale-up production. Transfer processes to cGMP labs working with contract labs. Will be central point of CMC knowledge for drug development and serve as strategist and CMC regulatory liaison for multiple drug candidates. Resolve regulatory issues that arise during preparation of documents. Respond to queries from FDA or regulatory bodies. Must possess 5+ years of experience in protein pharmaceuticals or related scientific discipline. Specific experience with drug targeting/drug delivery systems within the pharmaceutical or biotech industry. Ability to prepare the CMC submissions for anticancer and biological products including INDs, NDAs, DMFs and their amendments/supplements is required. Excellent written and oral communication skills and knowledge of FDA/cGMP requirements are essential. Ph.D. or equivalent degree in related field. Please include Job code: 4002.

Please send resume to **Ms. Denise Ditka at NeoPharm, Inc., 100 Corporate North, Bannockburn, IL 60083.**

NeoPharm is an Equal Employment Opportunity Employer.

POSITIONS OPEN



ASSOCIATE SCIENTIST CELL AND MOLECULAR TECHNOLOGIES, INC.

Cell and Molecular Technologies has an immediate opening for an **ASSOCIATE SCIENTIST** to support cell-based high-throughput screening programs. The position requires a Master's degree and five years of cell culture experience and at least two years of experience in development of cell-based assays and/or support of cell-based high-throughput screens. A working knowledge of robotic systems and automated dispensing systems is an advantage. CMT offers competitive salaries with full medical and dental benefits and excellent opportunity for growth. To apply, send your résumé to: **Dr. Kevin Dolan, Cell and Molecular Technologies, 580 Marshall Street, Phillipsburg, NJ 08865.**

TENURE-TRACK POSITION LABORATORY OF CELLULAR AND MOLECULAR BIOLOGY

The Laboratory of Cellular and Molecular Biology (LCMB), Division of Basic Sciences of the National Cancer Institute, National Institutes of Health, has a long tradition of excellence in the investigation of signal transduction pathways involved in both normal cellular function and malignant transformation. The Laboratory now invites applications for a tenure-track position to study the cell biology of signal transduction. The applicant should have the potential to develop an independent basic research program in cellular and molecular biology with emphasis on understanding basic signal transduction processes. This position is available for a Ph.D., M.D., or M.D./Ph.D. with a salary commensurate with education and experience. A one- or two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and curriculum vitae to: **Ms. Michelle Porturica, Executive Secretary, Laboratory of Cellular and Molecular Biology, DBS, NCI, Building 41, Room A101, Bethesda, MD 20892-5055. Telephone: 301-435-2515; FAX: 301-435-2779; e-mail: Porturim@exchange.nih.gov; website: <http://rex.nci.nih.gov/RESEARCH/basic/lcmb/labcellbio.htm>. NIH tenure-track Investigators with educational debts may be eligible for NIH Loan Repayment Program. Applications to be postmarked by November 17, 2000. The NCI is an Equal Opportunity Employer. Candidates must be U.S. citizens or permanent residents.**

ANIMAL PHYSIOLOGIST

The Department of Biology at the University of Memphis invites applications for an Animal Physiologist at the **ASSISTANT PROFESSOR** level. The area of research is open; however, those using an integrative, comparative, or ecological approach are encouraged to apply. Candidates will be expected to develop strong, extramurally funded research programs; direct M.S. and Ph.D. students; and teach effectively at graduate and undergraduate levels. Teaching expertise should include animal physiology and related courses. Applicants must have a Ph.D., established research credentials, and teaching and postdoctoral experience. 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 to: **Search Committee, Department of Biology, The University of Memphis, Memphis, TN 38152. Contacts for more information: Telephone: 901-678-2581; FAX: 901-678-4746; e-mail: jwolff@memphis.edu or see our Webpage. Review of applications will begin November 20, 2000, and may continue until the position is filled.**

The University of Memphis is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

POSITIONS OPEN

INSTRUCTOR/ASSISTANT PROFESSOR

(RESEARCH): The Renal Division at Rhode Island Hospital is seeking a Ph.D. Scientist to join an established basic science research program in renal molecular/cell biology. The successful candidate will develop an independent, externally funded basic science research program and collaborate with current faculty on existing projects. Expertise in the area of cell-matrix interactions and/or control of cell survival/death is required. Evidence of research productivity and the ability to attract extramural funding is highly preferred. The successful candidate will devote 90% of his/her time to research and also participate in the postgraduate training programs of the Division, including supervision of research by students, residents, and Fellows working in the laboratory. The candidate must qualify for a full-time faculty position at the rank of Instructor or Assistant Professor of Medicine (Research) in the Division of Nephrology, Department of Medicine, at the Brown University School of Medicine. Laboratory space and start-up funds will be made available to the successful candidate. Screening will begin immediately and will continue until a candidate is selected or the search is closed. Please send a letter of interest and curriculum vitae to: **Lance D. Dworkin, M.D., Director, Division of Renal Diseases, Rhode Island Hospital, 593 Eddy Street, Providence, RI 02903. The Rhode Island Hospital is an Equal Employment Opportunity/Affirmative Action Employer and encourages applications from women, minorities, and protected persons.**

ENVIRONMENTAL VIROLOGIST/ MICROBIOLOGIST

The Department of Molecular Virology and Microbiology at Baylor College of Medicine invites applications for a tenure/tenure-track faculty position at the rank of **ASSISTANT or ASSOCIATE PROFESSOR**. An innovative Scientist is sought with an interest in environmental virology/microbiology and the biology of emerging infections. Applicants should have postdoctoral experience and demonstrated research productivity. The successful applicant is expected to pursue an independent research program and to participate in graduate training. Current faculty research activities focus on viral and bacterial gene expression and function, microbial pathogenesis, RNA and DNA viruses of human diseases, oncogenes, and disease prevention. This is an excellent opportunity to join a strong academic department with newly renovated laboratories in the active Texas Medical Center. Send or e-mail your curriculum vitae; names and addresses of at least three references; statement of current research activities; and a description of future plans by November 1, 2000, to: **Dr. Mary Estes, Faculty Recruitment Committee, Department of Molecular Virology and Microbiology, Mail Stop BCM-385, Baylor College of Medicine, Houston, TX 77030 or e-mail: envir@bcm.tmc.edu. Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.**

HEAD, DEPARTMENT OF BIOLOGY, Western Kentucky University. Tenure-track, 12-month position to begin 1 July 2001. Appointment is initially four-year, renewable. Requirements include earned Ph.D. in biology; experience and achievements in teaching, research, and other forms of scholarship appropriate for appointment as or promotion to **FULL PROFESSOR**; proficiency in administration. Rank and salary are dependent upon qualifications. The Department of Biology includes the Biotechnology Center and Center for Biodiversity Studies and offers an M.S. program and undergraduate majors in biology, biochemistry, medical technology, and recombinant genetics. Visit website: <http://bioweb.wku.edu>. Review of applications begins 30 October 2000 and continues until the position is filled. Send curriculum vitae, four letters of recommendation, and a statement of administrative experience and philosophy to: **Head Search, Department of Biology, Western Kentucky University, 1 Big Red Way, Bowling Green, KY 42101. Western Kentucky University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.**

POSITIONS OPEN



RESEARCH CHEMIST GS-1320-12/13/14 Insect Chemical Ecology Laboratory Plant Sciences Institute Agricultural Research Service

The U.S. Department of Agriculture, Agricultural Research Service, Plant Sciences Institute, Insect Chemical Ecology Laboratory in Beltsville, Maryland, is seeking applications for a Research Chemist, GS-1320-12/13/14. Salary is commensurate with experience (\$51,204 to \$93,537 per annum) plus benefits. *Candidates must be U.S. citizens.* The incumbent will be responsible for planning and conducting independent and cooperative research in the area of arthropod chemical ecology with special emphasis on pheromones, kairomones, synthetic attractants, and repellents.

Candidates must request a copy of the vacancy announcement (ARS-DOE-4092) by either calling **Telephone: 301-504-1484** or by copying the full text announcement from the ARS website: www.ars.usda.gov. Candidates must submit specific information as outlined in the vacancy announcement. Applications must be postmarked by the closing date of September 29, 2000. *USDA/ARS is an Equal Opportunity Provider and Employer.*

FACULTY POSITIONS WEILL MEDICAL COLLEGE OF CORNELL UNIVERSITY

Department of Pharmacology

Candidates are sought for tenure-track positions at the level of **ASSISTANT PROFESSOR**. Candidates with interests in a wide range of areas related to the disciplines of pharmacology and clinical pharmacology will be considered. The responsibilities of this position include development of an active, independent research program and participation in both medical and graduate student teaching programs in the Department. Applicants should send curriculum vitae, a summary of proposed research, and should arrange to have letters sent from at least three Scientists who can evaluate the candidate's accomplishments. Weill Medical College of Cornell University is a part of the New York Presbyterian-Weill Cornell Medical Center and is adjacent to Memorial Sloan-Kettering Cancer Center and Rockefeller University. Applications should be sent to: **Chair, Pharmacology Search Committee, Box 70, Pharmacology Department, Weill Medical College, 1300 York Avenue, New York, NY 10021. FAX: 212-746-8858. Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.**

PLANT SYSTEMATIC BIOLOGY

The Department of Botany at the University of Georgia has an opening at the **ASSISTANT PROFESSOR** level in plant systematic biology. We seek an individual with expertise in plant systematics who uses innovative phylogenetic approaches to address fundamental questions in areas such as plant development, molecular evolution, phylogeography, speciation, and the evolution of plant genomes. The successful candidate is expected to develop a vigorous, externally funded research program and to teach plant systematics at the undergraduate and graduate levels. The Botany Department has strengths in many areas of plant biology and extensive links to other plant-related programs on and off campus. Further information is available at website: <http://www.botany.uga.edu/>. Candidates should submit curriculum vitae, short statements of research and teaching interests, reprints of up to five research papers, and have four letters of recommendation sent to: **Dr. Glenn Galau, Chair, Plant Systematics Biology Search Committee, Department of Botany, University of Georgia, Athens, GA U.S.A. 30602-7271. Applications received by November 3, 2000, are assured full consideration. The University of Georgia is an Equal Opportunity Employer.**

EUROPEAN OPPORTUNITIES



As of 2002, the active substance of a novel drug will be produced in Alsace/France. **The Novartis Biotechnology Center is recruiting.**

For more details please visit our web site. New positions will be added regularly.

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GLOBAL OPPORTUNITIES



Founded 1905

NATIONAL UNIVERSITY of SINGAPORE

Faculty Positions Department of Physiology

National University of Singapore invites applications for full-time tenure-track faculty positions in the Department of Physiology.

The Department of Physiology has teaching commitments to medical, dental and science students and has an active graduate research program. Faculty members have an excellent reputation in the following areas of research - tumour biology, apoptosis, cell differentiation and development, iron transport, energy homeostasis, neuroscience, clinical physiology and drug target identification. The Department has close collaborative links with research institutes and biotechnology companies in Singapore and research groups internationally.

We are looking for outstanding faculty members with an MD or PhD degree (or equivalent) and at least 2 years of postdoctoral experience. He/she is expected to teach human physiology at both undergraduate and graduate levels, to conduct independent research and compete successfully for research funding. Research experience in molecular biology, cancer biology, genomics or proteomics will be an advantage.

Remuneration will be commensurate with qualifications and experience.

Interested parties should send their applications, supported by a resume, detailed research plan and three letters of reference immediately to:

Head, Recruitment Committee
Department of Physiology
Faculty of Medicine
National University of Singapore
2 Medical Drive
Republic of Singapore 117597

Visit our website at <http://www.nus.edu.sg/NUSinfo/Appoint/med-phys.htm> for links to information on the Department, the University, terms and conditions of service, and the application form.

Only shortlisted candidates will be notified.

GLOBAL OPPORTUNITIES



HANWHA CHEMICAL

Hanwha Chemical has laid the groundwork for Korea to join the ranks of the world's leading petrochemical producers. We started up the first domestic polyvinyl chloride (PVC) production back in 1966, and subsequently were first to begin producing polyethylene (PE) and chemicals from petroleum in Korea. We aim to secure top competitiveness for petrochemical polymers in Asia and the rest of the world. In 1999, total sales of the company were around 1.3 billion US \$, and net income 120 million US \$.

To further our growth, we have committed to expand its scope to biotechnology. We will invest 15 million US\$ per year in a program and establish a basic research center for biotechnology at Hanwha R&D Institute in the DaeDuk Research Park, TaeJun, South Korea. Our focus will be on diseases of central nervous system (CNS) and cardiovascular (CV) system. We will be launching a multidisciplinary program to solve problems that are related with the diseases. We are aiming for the center to have an academic environment in the industrial setting and encourage scientific publications. We are seeking creative and dynamic scientists with a Ph.D. / M.D. who have postdoctoral experience of at least three years. Candidates should demonstrate their productivity and creativity by strong publication records. Ideally the candidates should have experience in either the CNS or CV but candidates with different experiences (such as molecular biology, cell biology, biochemistry, genetics, bioinformatics etc.) are encouraged to apply. We would like to fill at least five positions at the level of group leader in the first round of recruitment.

Salary would be commensurate with qualifications and benefits including housing and relocation cost will be provided. Outstanding candidates with strong commitment to basic research in industry should send their application, including a detailed curriculum vitae, copy of three representative publications, a research plan of two pages, and addresses of three referees (including an e-mail or fax number) to **Ilho Ha, Ph.D., Director, BioScience Center, Hanwha Chemical R&D Institute, 6 ShinSung-Dong, YuSung-Ku, TaeJun, South Korea 305-345**, telephone number 82-42-865-6473 or 6692 and fax number 82-42-865-6690 or send e-mail to skpark@hanwha.co.kr by October 25, 2000. For more information about Hanwha Chemical please visit our website at <http://www.hanwha.co.kr> and <http://hcc.hanwha.co.kr>



PHARMACOLOGY AND PHARMACOGENOMICS

The National Cancer Centre of Singapore (NCC) is a state-of-the-art translational research institution dedicated to progress against cancer. We are seeking to appoint Senior Scientists interested in leading the following programme areas:

- Pharmacogenomics (with emphasis on Asian anti-cancer drug handling)
- Molecular pharmacology
- Rational anti-cancer drug development
- High-flux drug screening
- Combinatorial chemistry
- Clinical pharmacology and pharmacokinetics
- Experimental therapeutics

A track record of relevant published work in peer-reviewed journals is essential. NCC provides a highly attractive remuneration and benefits package including Singapore relocation and return expenses, settling-in allowance, conference leave, housing allowance and subsidised medical benefits. Interested candidates should **e-mail their c.v. to Dr Kei-Siong Khoo at ctekks@nccs.com.sg**, stating the project area(s) of interest together with a brief summary of proposed research, and the names and e-mail addresses of 3 referees. Only shortlisted applicants will be notified. All applications and enquiries will be treated as strictly confidential.

POSITIONS OPEN

MOLECULAR HEMATOLOGY/ ONCOLOGY

The Division of Pediatric Hematology/Oncology and Stem Cell Transplantation and Children's Hospital of Pittsburgh are expanding basic research activities in the areas of molecular hematology/oncology. We are looking for a Scientist with M.D., M.D./Ph.D., or Ph.D. training and a strong record of productivity, particularly within the areas of hematopoietic stem cell biology, cell signaling, and molecular oncology of pediatric leukemias and solid tumors. The ideal M.D. candidate will be a **PEDIATRIC HEMATOLOGIST/ONCOLOGIST**, but others with board certification in internal medicine will be considered.

Children's Hospital of Pittsburgh is one of the top 10 pediatric hospitals in the United States and is affiliated with the University of Pittsburgh Cancer Institute, one of the top NIH-funded Comprehensive Cancer Centers. The University of Pittsburgh School of Medicine is tenth in NIH funding. Over 7,000 square feet of wet laboratory space dedicated to pediatric hematology/oncology and stem cell transplantation is under renovation.

Interested individuals should send curriculum vitae to:

A. Kim Ritchey, M.D.
Chief, Pediatric Hematology/Oncology/
Stem Cell/Transplantation
Children's Hospital of Pittsburgh
3705 Fifth Avenue
Pittsburgh, PA 15213
E-mail: ritchek@chplink.chp.edu
FAX: 412-692-7693

TENURE-TRACK SCIENTIST NINDS, NIH

Structural, Molecular, Cellular, Developmental,
or Systems Neuroscience

As part of the continuing revitalization of the intramural neuroscience research community at NIH, the Intramural Research Program at NINDS invites applications to fill several tenure-track faculty positions. We seek exceptional candidates to establish independent and imaginative research programs in structural, molecular, cellular, developmental, or systems neuroscience. A Ph.D. or M.D. and at least two years of postdoctoral experience are required. The successful candidate will join a diverse, collegial group of investigators at NINDS (see [website: www.intra.ninds.nih.gov](http://www.intra.ninds.nih.gov)) and become part of a new interinstitute neuroscience initiative. These positions include salary and highly competitive support packages that are commensurate with the qualifications and experience of the successful candidates. Applicants should send curriculum vitae including bibliography, statement of research interests, and the names of three references to: **Story Landis, Ph.D., c/o Mr. Glenn Hartzoge, Human Resources, 36 Convent Drive, MSC-4152 36/5A07, Bethesda, MD 20892-4152**. Applications must be received no later than October 30, 2000. *NIH is an Equal Opportunity Employer.*

The VA Alcohol Core Center at the University of Nebraska Medical Center (UNMC)/Omaha Veterans Administration Medical Center (OVAMC) has an immediate opening for an **INSTRUCTOR** position. The candidate should have a Ph.D. in immunology, cell biology, biochemistry, or a related field. The aim of this research is to examine the potential role of the immune system to respond to aldehyde-modified proteins, specifically, to investigate the antibody and T cell responses to these adducts in relation to the development and/or progression of alcohol liver disease. This research is supported by funds through the NIAAA, and salary will be commensurate with experience. Interested candidates should send their curriculum vitae to: **Geoffrey M. Thiele, Ph.D., OVAMC, 4101 Woolworth Avenue, Omaha, NE 68105**. Telephone: 402-346-8800, extension 3550; FAX: 402-449-0604; e-mail: gthiele@unmc.edu. *UNMC/OVAMC is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. Not an H-1 or J-1 opportunity.*

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS MOLECULAR DEVELOPMENTAL BIOLOGY

Postdoctoral positions are available to study the molecular control of mammalian embryonic development and oncogenesis. We are particularly interested in the roles of Wnt and hedgehog signaling pathways in embryonic pattern formation and skeletal morphogenesis, and we are using the approaches of gene cloning and targeting, transgenics, genomics, cell biology, and biochemistry. We seek candidates with strong background in molecular genetics, cell biology, and developmental biology.

Interested candidates please send curriculum vitae and statement of research interest to:

Yingzi Yang, Ph.D.
Developmental Genetics Section
Genetic Disease Research Branch
National Human Genome
Research Institute
NIH
49 Convent Drive,
Building 49, Room 4A68
Bethesda, MD 20892
E-mail: yyang@nhgri.nih.gov

NIH is an Equal Opportunity Employer.

FACULTY POSITIONS IN CELL AND DEVELOPMENTAL BIOLOGY

The Department of Cell and Developmental Biology at Oregon Health Sciences University invites applications for a full-time tenure-track or tenured appointment at the level of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR**. Candidates with an active research interest in mechanisms of cellular and/or developmental biology are encouraged to apply. Current research strengths of the Department include embryonic patterning, developmental neurobiology, intracellular protein dynamics, cell-cell signaling, transcriptional regulation, and cancer biology. Applicants at the Associate or Full Professor level should have an established research program with extramural funding. Please submit applications including curriculum vitae; a statement of research interests; and the names, addresses, and telephone numbers of three references to: **Jan Christian, Ph.D., Search Committee, Department of Cell and Developmental Biology, L215, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098**. Applications will be considered until the position is filled. *Oregon Health Sciences University is an Equal Opportunity/Affirmative Action Employer.*

APPLIED MICROBIAL ECOLOGIST/ PHYCOLOGIST (SENIOR ENVIRONMENTAL SCIENTIST) South Florida Water Management District West Palm Beach, Florida

Applied Microbial Ecologist/Phycologist needed in multidisciplinary team conducting research to support restoration of the Florida Everglades. The successful candidate will conduct laboratory and field research examining microbially mediated nutrient cycling and the response of periphyton communities to hydrologic and nutrient changes. The candidate will also have opportunities to analyze existing data on periphyton responses to phosphorus enrichment. Prefer Ph.D. in biogeochemistry, limnology, ecology, or microbiology and more than four years of related experience. Submit a cover letter of research interests, curriculum vitae, names and contact information for three references. Include Job Reference Number: 000460 and apply to: **6520 Human Resources, South Florida Water Management District, P.O. Box 24680, West Palm Beach, FL 33416-4680**. E-mail: hrproweb@sfwmd.gov. Please send courtesy copy of submittal to **Dr. Sue Newman** at e-mail: snewman@sfwmd.gov.

POSITIONS OPEN

SCIENTIFIC DIRECTOR NATIONAL FOUNDATION FOR FUNCTIONAL BRAIN IMAGING

The National Foundation for Functional Brain Imaging seeks applications and nominations for the position of Director, the chief executive and scientific officer of the Foundation. The Foundation is a non-profit organization dedicated to advancing the understanding of mental illness through the development and application of advanced brain-imaging techniques. The Foundation supports clinical and basic research in the areas of mental illness, cognitive neuroscience, and cognitive disorders, as well as research and technology development in the areas of instrumentation, data analysis, and computational modeling for functional brain imaging. Headquartered in Albuquerque, the Foundation is a partnership of medical, scientific, and educational institutions in New Mexico (including the University of New Mexico, Albuquerque VA Medical Center, Los Alamos National Laboratory, and Sandia National Laboratories); Minnesota (University of Minnesota School of Medicine, Minneapolis VA Medical Center); and Massachusetts (Harvard University School of Medicine, Massachusetts General Hospital).

As chief executive and scientific officer, the Director is responsible to the Foundation Board of Directors for advancing the Foundation mission and providing leadership in all aspects of Foundation activities. These responsibilities include advancing the overall vision and strategic directions of the Foundation; leadership of the Foundation's scientific and programmatic activities (including the conduct of the incumbent's own research program); fostering productive relationships and collaborations among Foundation partner institutions; fostering strong interactions with Congress, federal science and mental health organizations, and other public and private funding sources; ensuring the effective investment and utilization of Foundation resources; and creating a strong and productive scientific environment for the Foundation's researchers and partner institutions.

Required education and experience: M.D. and/or Ph.D. in a field relevant to the Foundation mission; strong record of research accomplishment as evidenced by publications in leading scientific journals; positions on federal peer review and advisory committees, etc.; strong leadership skills as evidenced by positions of increasing leadership responsibility in medical or educational institutions; and ability to foster productive relationships among a number of leading research and educational institutions. The successful candidate must qualify for a **SENIOR FACULTY** position at the University of New Mexico or other partner institution.

Salary and benefits commensurate with the responsibilities of the position. Please send letters of application or nomination, together with complete curriculum vitae and names of five references, to: **Dr. Leonard Napolitano, Chairman, Board of Directors, National Foundation for Functional Brain Imaging, 801 University Boulevard S.E., Suite 200, Albuquerque, NM 87106**. Applications requested by October 16, 2000.

The Foundation is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS University of California Los Angeles

To study the mechanism, genetic control, and inducibility by carcinogens of genetic instability in *Atm*, *p53*, *p21*, *Gadd45*, *rad52*, *Ku80*, *DNAPk*, and *Werner* syndrome transgenic mice. Molecular biology and/or mouse breeding experience required. Please send curriculum vitae and names and addresses of three references to:

Robert H. Schiestl
Professor of Pathology and Environmental Health
at UCLA
Current address:
Department of Cancer Cell Biology
Harvard School of Public Health
665 Huntington Avenue
Boston, MA 02115



Singapore Genomics Program

The **Singapore Genomics Program** is an exciting flagship initiative that will provide the key infrastructure for life sciences R&D in Singapore. Its objective is to employ a multidisciplinary integrated approach to identify novel genes in diseases that are common in Asia, thereby providing new molecular targets for diagnostic and therapeutic applications.

CHIEF SCIENTIFIC OFFICER (CSO)

The CSO is a senior scientist who will be responsible for the overall management of the SGP, including the development of research strategies and implementation of specific research projects. Minimum 10 years working experience with a proven track record of excellence in research, team management and people skills is essential. A background in genomics, proteomics and cell/tumor biology will be highly desirable. Candidates with experience in the pharmaceutical and/or biotech industry will be at a distinct advantage. The CSO is expected to work closely with both academia and industry.

DIVISION HEADS

The Division Head will be responsible for leading and developing a strong and dynamic research team. Strong people skills and extensive experience in genomic technologies are essential, particularly in the use of expression profiling, SNP genotyping, microarrays or proteomics approaches to elucidate gene/function relationship. The Division Head will play an important role in working with the CSO to develop research strategies for SGP. Minimum 6 years postdoctoral working experience is required.

RESEARCH SCIENTISTS & POSTDOCTORAL SCIENTISTS

The successful applicants will work to develop genome scale analysis to identify genes and molecular pathways associated with disease phenotypes. Experience in tumor biology, expression profiling, high throughput genotyping, microarray, protein phosphorylation, protein chemistry, protein expression, mass spectrometry or population genetics is preferred. In addition, expertise in genomics and proteomics methodologies will be a distinct advantage. Applicants for Research Scientists should have minimum 3 years postdoctoral working experience.

PRINCIPAL INVESTIGATORS - BIOINFORMATICS

The responsibility of the PI will be to create and provide better tools, based on bioinformatics and molecular techniques, for prognosis, diagnosis, and rational choice of therapies. PI must possess strong programming skills with solid R&D experience in a relevant area such as genotyping automation, database construction and management, datamining and knowledge discovery, workflow automation and bioinformatics analysis. A PhD degree in computer science or a related field with working experience in a pharmaceutical or biotech company will be an advantage.

ENGINEERS & SYSTEM MANAGERS - BIOINFORMATICS

The successful candidates should have a solid understanding of a UNIX-based operating system, with knowledge of Windows and PC management. Candidates must have clear understanding of computer algorithms and be able to program in multiple programming/scripting languages such as C, C++, Perl, Tcl/tk, etc. The engineers will work under general direction from senior scientists to develop specific algorithms and applications, integrate instruments, databases, and analysis workflow. The system managers should be capable of writing proposals or papers, acting as a vendor liaison, and working closely with scientists.

Interested applicants please send a full CV with names of two referees to:

The Administration Manager,
Singapore Genomics Program c/o Department of Haematology Oncology,
National University Hospital, 5 Lower Kent Ridge Road, Level 2,
Main Building, Singapore 119074. Email: TangMS@nuh.com.sg

Only shortlisted candidates will be notified • Closing date: 30 September 2000

Intramural Information Technical Support Advisor:

Intramural Information Technical Support Advisor: This position will be the senior IT advisor to the NINDS Scientific Director in liaison with the NINDS CIO. Responsibilities will include overall coordination of all IT systems (NT, Mac, Unix), as well as unique IT support requirements of neuroscience researchers in over 25 scientific laboratories.

Applicants should have appropriate technical expertise, demonstrated project management and communication skills, strategic vision, and ability to persuade/negotiate. Understanding of biomedicine and/or research cultures and organizations is a plus. Salary range \$71,954 to \$110,028, depending on qualifications. US citizenship required.

Intramural Information Technical Support Advisor (fax#5029).

For application by fax call (800) 728-JOBS,
request the appropriate FAX#.

To obtain by way of the Internet, use the following URL:
<http://careerhere.nih.gov/>

or call the NINDS Personnel Office at (301) 496-6334.

Applications must be postmarked by 10/13/00.

NINDS is an Equal Opportunity Employer

Laboratory of Molecular Biology

Tenure Track Investigator Position in Chemical Biology/Proteomics

The Laboratory of Molecular Biology of the National Institute of Diabetes and Digestive and Kidney Diseases, NIH, invites applications for a tenure-track (assistant professor equivalent) investigator position in the general area of protein function. We seek an individual who will establish an independent research program using chemical biology, proteomics, or other innovative technologies to understand cellular regulatory mechanisms at the level of protein function.

The LMB is a multidisciplinary laboratory similar to an academic department. The LMB emphasizes the integration of structural and molecular approaches to biological questions. Ample laboratory space will be located in the newly constructed state-of-the-art building 50, housing laboratories from several NIH Institutes engaged in x-ray and electron crystallography, cryoelectron microscopy, NMR, mass spectrometry, computational biology, biochemistry, molecular and cell biology, and genetics and genomics. The incumbent will be provided with ample support for the staffing and operation of an independent research group, without the need to obtain external funding. The position carries no teaching obligations. Applicants should have a doctoral degree and postdoctoral training.

Send applications to: Dr. James H. Hurley, Protein Function Search Committee, Bldg. 5 Rm. 324, LMB NIDDK, NIH, Bethesda, MD 20892-0560. To apply, send cv, summary of proposed research, and arrange for 3 letters of reference to be sent separately no later than Oct 31, 2000.

The current LMB faculty are listed at:
<http://www.niddk.nih.gov/intram/branchlb/lmb.htm>
More information on building 50 can be found at:
http://des.od.nih.gov/building_50/welcome_overview.htm

NIDDK, NIH

POSITIONS OPEN

BIOLOGY DEPARTMENT HEAD

Applications and nominations are invited for the position of Head of the Department of Biology, The Citadel, Charleston, South Carolina. The Citadel is a nationally recognized comprehensive college with a military format. The student body includes 2,000 undergraduate cadets and 1,500 evening and graduate students. The Department of Biology consists of nine permanent faculty positions and offers a core curriculum science sequence for most of the approximately 650 entering freshmen and provides a strong program for approximately 100 majors and 20 graduate students working toward M.A. Ed. and M.A.T. degrees. Areas of strength within the Department include pre-professional preparation, field biology, and expanding offerings in cellular/molecular biology. Candidates must possess a Ph.D. in a biology subdivision, experience in undergraduate and graduate teaching, demonstrated ability to obtain grants, published research, and a collegial attitude toward administration and leadership. The Department head has a limited teaching load and is responsible for the administrative activities of the Department. Research opportunities and some internal support funds are available.

The initial five-year appointment begins in August 2001, and the salary will be competitive. The position will remain open until filled; however, application review will begin October 30, 2000. Applicants should submit a letter of application, résumé, and the names and telephone numbers of three references. Address applications and materials to: **Department of Human Resources, The Citadel, 171 Moultrie Street, Charleston, SC 29409. FAX: 843-953-5228.** You may also submit application and materials online at website: <http://hrweb.citadel.edu/jobs.cfm>. Please reference Job Number F00-21. *The Citadel is an Equal Employment Opportunity/Affirmative Action Employer, dedicated to multicultural diversity in campus leadership positions.*

STEM CELL BIOLOGY/ TRANSPLANTATION

The Division of Pediatric Hematology/Oncology and Stem Cell Transplantation and Children's Hospital of Pittsburgh are expanding basic research activities in the area of stem cell biology/transplantation. We are looking for a Scientist with M.D., M.D./Ph.D., or Ph.D. training and a strong record of productivity, particularly within the areas of SCID/NOD mouse model of hematopoiesis, hematopoietic stem cell biology, or immunobiology of transplantation. The ideal M.D. candidate will be a **PEDIATRIC HEMATOLOGIST/ONCOLOGIST**, but those with Board certification in internal medicine will be considered.

Children's Hospital of Pittsburgh is one of the top 10 pediatric hospitals in the United States and is affiliated with the University of Pittsburgh Cancer Institute, one of the top NIH-funded Comprehensive Cancer Centers. The University of Pittsburgh School of Medicine is tenth in NIH funding. Over 7,000 square feet of wet laboratory space dedicated to pediatric hematology/oncology and stem cell transplantation is under renovation.

Interested individuals should send curriculum vitae to:

A. Kim Ritchey, M.D.
Chief, Pediatric Hematology/Oncology/
Stem Cell/Transplantation
Children's Hospital of Pittsburgh
3705 Fifth Avenue
Pittsburgh, PA 15213
E-mail: ritchek@chplink.chp.edu
FAX: 412-692-7693

POSTDOCTORAL POSITION to study the regulation of phosphorylated cytoskeletal proteins and modulation of their function during neurodevelopment and neurodegeneration. Candidates with a background in molecular biology/cellular neuroscience and familiarity with primary neuronal cell culture or site-directed mutagenesis preferred. Please send curriculum vitae and names of three references to: **Dr. Dale Vandre, Department of Physiology and Cell Biology, The Ohio State University, 1645 Neil Avenue, Columbus, OH 43210. E-mail: vandre.1@osu.edu.**

POSITIONS OPEN



ABS Inc. (website: www.ABSbio.com) is rapidly expanding and has several positions available within the next 12 months. These positions will be filled at our U.S. headquarters in Wilmington, Delaware, and at a new site we are establishing in Germany. We offer competitive salaries, a full benefits package, and the opportunity for rapid advancement for the right individuals. All applicants must have good communication skills and the ability to work independently as well as part of a team. All candidates must be fluent in English. Candidates applying for positions in Germany must also be fluent in German.

BUSINESS DEVELOPMENT DIRECTOR/V-P: Individuals with extensive business experience and a broad knowledge of drug discovery/biomedical research are needed for positions in Europe and the United States. The successful candidates will work with pharmaceutical and biotechnology companies to form alliances for the commercialization of new assay technologies that are being developed at ABS. These individuals will also be working to form cooperative agreements with other companies that serve the drug discovery market.

CUSTOMER SERVICE MANAGERS: Three positions are open in Germany, California, and the Eastern United States. We are looking for individuals with broad scientific backgrounds in the biological/pharmaceutical sciences. A Ph.D. is preferred. A willingness to help others, not high-pressure selling techniques, is essential. Previous sales and marketing experience is not required. Frequent travel to our customers will be an important part of these positions.

RESEARCH BIOCHEMIST: We are looking for a Ph.D.-level Molecular Biologist with postdoctoral experience for functions that include transfections and the establishment of stable cells.

SENIOR RESEARCH TECHNICIAN AND LABORATORY MANAGER: B.S./M.S. positions are open to work in our bioreagent laboratory. Ability to work independently on multiple tasks is essential. The right individuals must have the flexibility to function well with quickly changing projects and priorities. Please send your résumé to: **ABS Inc., 701-4 Cornell Business Park, Wilmington, DE 19801.**

TWO POSTDOCTORAL POSITIONS NEUROSCIENCE

Positions will be available for an Electrophysiologist and a Molecular Biologist/Biochemist by March 1, 2001, in the Department of Neurobiology and Anatomy, Wake Forest University School of Medicine (WFUSM), Winston-Salem, NC 27157-1010, to study mechanisms underlying long-term memory in mammalian model systems. This is an exciting opportunity to be part of a group that uses an integrative approach incorporating molecular, electrophysiological, and behavioral techniques. The research program will address important questions on memory formation (see *Cell* 89:115-126). Electrophysiologist: Ph.D. in neuroscience or related disciplines required. Expertise in voltage clamping and patch clamping essential. Experience in recording from mammalian cortical slices preferred. Molecular biologist/biochemist: Ph.D. in molecular biology/biochemistry, molecular neuroscience, or related disciplines essential. Expertise in cloning, library screening, analytical DNA/RNA techniques, and protein purification required. Send curriculum vitae, names, addresses, and contact information (including e-mail) for three references by FAX or e-mail to: **Ashok N. Hegde, Ph.D., Columbia University, P. I. Annex, Room 710, 1051 Riverside Drive, New York, NY 10032. FAX: 212-543-6059; e-mail: anh2@columbia.edu.** After January 1, 2001, mail applications to the WFUSM address given above. *Wake Forest University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

PROFESSIONAL RESEARCH ASSISTANT

Position description: The Section of Pediatric Critical Care at the University of Colorado Health Sciences Center in Denver, Colorado, seeks to fill three full-time positions for Professional Research Assistants with a minimum B.S. degree. The work will focus on the role of cell adhesion molecules and their regulation by integrins and homeobox transcription factors in vascular smooth muscle cells and reactive adventitial fibroblasts. Highly motivated and experienced individuals with extensive experience in current cellular and molecular biology techniques are encouraged to apply. Experience in protein biochemistry will also be useful. Salary: Commensurate with education and experience.

Send résumé and cover letter, including references and salary requirements, to:

Peter L. Jones, Ph.D.
Department of Pediatrics
Division of Critical Care Medicine
University of Colorado Health Sciences Center
4200 East Ninth Avenue, Box B131
Denver, CO 80262
E-mail: pljcolorado@aol.com
Application deadline: October 31, 2000.

ASSISTANT PROFESSOR OF BIOCHEMISTRY UNIVERSITY OF WASHINGTON

Applications are invited for a tenure-track Assistant Professor position in the Biochemistry Department of the University of Washington Medical School. We are interested in applications from creative individuals who have strong research credentials and plan to focus on molecular aspects of important biological problems. Applicants should have a Ph.D. in biochemistry, molecular biology, or a related field. The appointee will be expected to participate in interdisciplinary graduate training programs and undergraduate teaching. Applicants should submit curriculum vitae, a research prospectus, reprints/preprints, and three letters of recommendation to be forwarded separately by December 1, 2000, to: **Alan Weiner, Chair, Department of Biochemistry, University of Washington, Seattle, WA 98195-7350. Telephone: 206-543-4985; FAX: 206-685-9231; e-mail: amweiner@u.washington.edu.** *The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University of Washington is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR TENURE TRACK BOTANIST Department of Biology Drury University

Drury University Department of Biology is seeking applications for a Botanist to teach introductory botany, plant taxonomy, and introductory cell biology and participate in the interdisciplinary general education science curriculum. Candidates must have a Ph.D., a strong commitment to high-quality undergraduate teaching, a commitment to participating in research with undergraduate students, and experience in the use of molecular tools in botany. Applications should be sent by October 30, 2000, to: **Dr. Barbara Wing, Chair, Department of Biology, Drury University, 900 North Benton Avenue, Springfield, MO 65802. E-mail: bwing@drury.edu; Telephone: 417-873-7237; FAX: 417-873-7278.** *Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION available to study the molecular pharmacology of glucagon-like peptide (GLP-1) receptors. Experience in receptor signaling and/or molecular/cell biology is desirable. Send curriculum vitae and names of three references to: **Dr. Martin Beinborn, MCRI, Box 7703, New England Medical Center/Tufts University School of Medicine, 750 Washington Street, Boston, MA 02111. E-mail: Mbeinborn@Lifespan.org.** *New England Medical Center is an Equal Opportunity Employer.*

Challenging opportunities for a medicinal chemist (PhD)

Will you take the lead in our search for new leads?

Organon is an international company devoted to the research, development, production and sale of medicines. The Lead Discovery Unit plays an important role in Organon's R & D organization. This unit is responsible for the delivery of chemical leads for all therapeutic areas. Its operational activities encompass the development of robotized assays, high throughput screening, combinatorial chemistry and hit-to-lead-optimization.

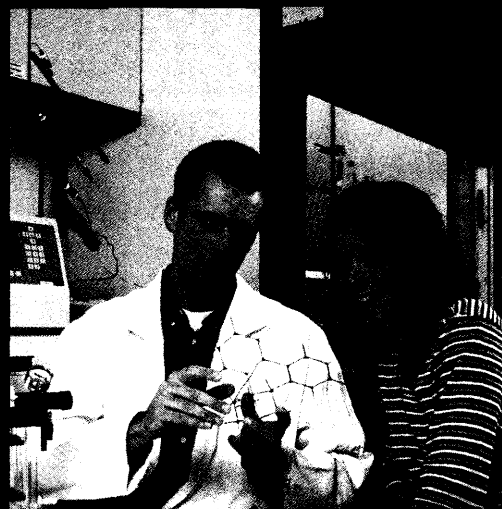
We are looking for someone to head the Chemistry Section of the Lead Discovery Unit, someone able to lead a section of about 30 chemists. Each team is primarily focussed on reproductive medicine and immunology projects.

This is a fascinating and responsible job for a scientist with a PhD in organic/medicinal chemistry, at least 5 years' research experience and a demonstrable track-record in drug discovery

(e.g. patents and publications). The new head is also an ambitious man or woman, who is project-oriented in a performance-driven environment. Last but not least, excellent communicational, planning and organizational skills are required.

For more information please contact Mr. C. Van Boeckel, Lead Discovery Unit, tel. +31-412/662472. Detailed information on the opening can be found on our website: www.organoncareers.com

Are you interested in this challenging opportunity? Please send or mail us your application within 14 days along with your curriculum vitae to N.V. Organon, Personnel Department, attn: Mrs K. Kuipers, P.O. Box 20, 5340 BH Oss, the Netherlands, e-mail: k.kuipers@organon.oss.akzonobel.nl. Please quote reference number EB 00-38 on the envelope and letter or in your e-mail.



Akzo Nobel is a global supplier of healthcare products, paints and coatings, and chemical products.

The company currently has about 68,000 employees in more than 75 countries.

Organon is a business unit of the Akzo Nobel Pharma Group.

Worldwide, there are 10,000 employees actively involved in the development, production and sales of gynecological, psychiatric, immunological and hematological medicines.

POSITIONS OPEN

WILDLIFE ECOLOGIST CENTER FOR WILDLIFE ECOLOGY ILLINOIS NATURAL HISTORY SURVEY

The Center for Wildlife Ecology (CWE) at the Illinois Natural History Survey invites applications for a Wildlife Ecologist. We seek candidates with strong quantitative skills and research interests in upland game bird ecology, wildlife diseases/epidemiology, urban wildlife, or ecotoxicology, although productive researchers in other specializations are encouraged to apply. Candidates must hold a Ph.D. (by date of hire) in wildlife ecology, natural resource management, or related field. The candidate must have demonstrated ability to publish in peer-reviewed, nationally recognized scientific journals; develop grant proposals and attract funding; conduct, supervise, and evaluate research activities; possess strong quantitative skills; and be willing to work with state and federal agencies and the University of Illinois. The candidate must be able to make sound value judgments and articulate professional opinions (in writing or in person) to granting agencies, management agencies, the scientific community, and the general public. The Illinois Natural History Survey is part of the Office of Scientific Surveys, Illinois Department of Natural Resources. It is an Affiliated Agency of the University of Illinois and is located on the Urbana-Champaign campus. Further information regarding the Center and Survey can be found at [website: www.inhs.uiuc.edu](http://www.inhs.uiuc.edu). Direct technical questions to: **Dr. Craig A. Miller (Search Chair)**. Telephone: 217-333-7485; e-mail: craigm@inhs.uiuc.edu. To apply, send cover letter, curriculum vitae, a statement of research interests, and three letters of reference to: **Susan Key, Human Resources Manager, PRF Number 764, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820**. Telephone: 217-244-7790; FAX: 217-333-4949. To ensure full consideration, applications should be received by October 23, 2000. *INHS is an Equal Opportunity Employer.*

MOLECULAR OR CELL BIOLOGIST BONE OR CARTILAGE RESEARCH

The Albert Einstein Healthcare Network invites applications for an ASSISTANT or ASSOCIATE SCIENTIST in the Department of Orthopaedics in the area of molecular or cell biology related to bone or cartilage research. Basic science teaching to resident staff and supervision of resident research projects are responsibilities of this position. Start-up funds for independent research are available.

The successful applicant must possess a Doctoral degree in an appropriate area and is expected to maintain a competitively funded research program. The candidate may be eligible for a faculty appointment at Thomas Jefferson University, and opportunities are available for a teaching position at LaSalle College.

Applicants should submit their curriculum vitae, bibliography, and a brief description of their funded research activities, and arrange to have three letters of reference sent. Applications will be considered in the order they are received. Please send to:

John A. Handal, M.D.
Chairman, Department of Orthopaedics
Albert Einstein Healthcare Network
5501 Old York Road
Willowcrest Building, Fourth Floor
Philadelphia, PA 19141

Albert Einstein Healthcare Network is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE (POSTDOCTORAL) POSITION is available at the University of Arizona NIH Southwest Small Animal Imaging Resource facility. Research includes enhancing optical coherence tomography system performance and developing suitable small animal imaging applications. Ph.D. in biological or biomedical sciences or engineering or equivalent required. For additional information, see [website: www.hr.arizona.edu](http://www.hr.arizona.edu), Job Number 17827. *University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.*

POSITIONS OPEN

ASSISTANT PROFESSOR: tenure-track position, Animal Cell Biologist, Department of Biological Sciences, Murray State University. Position to begin August 2001. Qualifications: Ph.D. required with preference given to candidates with expertise in any of the following areas: immunology, gene control of differentiation, tumor biology, and/or cell cycle control. Requires postdoctoral experience and evidence of productive research. Must have a strong commitment to teaching at undergraduate and graduate levels, including involvement of students in ongoing research. Will be expected to develop programs capable of attracting external funding. This position is the result of a recent Howard Hughes Medical Institute Award to enhance biomedical research and education and accordingly carries a generous start-up package. Responsibilities: will include teaching a combination of core biology and service courses, immunology, and an advanced course in the candidate's area of expertise. The Department of Biological Sciences has 16 faculty with graduate program concentrations in molecular and cellular biology, physiology, and ecology and organismal biology and will be relocating to a new science complex presently under construction. Application deadline: November 1, 2000. To apply: Submit a letter of interest, curriculum vitae, statement of teaching interests and philosophy, description of research, relevant reprints, and copies of transcripts (unofficial acceptable) to: **Dr. David Canning, Search Committee Chair, Department of Biological Sciences, 334 Blackburn Science Building, Murray State University, Murray, KY 42071-3346**. Additional information may be obtained by e-mail: **David.Canning@murraystate.edu**; Telephone: 270-762-6368. *Equal Education and Employment Opportunity; Minorities/Female/Disabled; Affirmative Action Employer. Women and minorities are encouraged to apply.*

FACULTY POSITION BIOLOGICAL OCEANOGRAPHY UNIVERSITY OF WASHINGTON

The School of Oceanography at the University of Washington invites applications for a faculty position in biological oceanography. Appointment is anticipated at the ASSISTANT PROFESSOR rank, but candidates with exceptional qualifications may be considered for appointment at the rank of ASSOCIATE PROFESSOR or PROFESSOR. We seek a person whose research integrates biochemical, physiological, and/or molecular approaches to understand the distribution and abundance of functional groups of phytoplankton important to oceanic biogeochemical processes. Ph.D. degree is required by the date of appointment. Candidate will be expected to teach at the undergraduate and graduate levels. Informal requests for further information can be directed to **Dr. Bruce Frost** at the following e-mail address: frost@ocean.washington.edu. Applicants should send curriculum vitae, a statement of research and teaching interests, a list of publications, recent reprints, and the names of four references to: **Professor Bruce W. Frost, Director, University of Washington, School of Oceanography, Box 357940, Seattle, WA 98195**. Priority will be given to applications received before 8 November 2000. *The University of Washington is an Equal Opportunity/Affirmative Action Employer. The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates.*

POSTDOCTORAL or RESEARCH ASSISTANT/ASSOCIATE POSITIONS are available to study the molecular basis of human cancer at the University of Virginia. Major projects include the genetic identification of novel genes and biochemical study of known genes that underlie human cancer. Prior experience is desired, and general qualification is more important. Interested individuals should send curriculum vitae with details of three references to: **Dr. Jin-Tang Dong, Department of Pathology, University of Virginia, Box 800214, Charlottesville, VA 22908-0214**. E-mail: jd4q@virginia.edu; FAX: 804-924-9206. *Equal Opportunity Employer.*

POSITIONS OPEN

ECOLOGIST: Hartwick College, a nationally ranked, selective liberal arts and sciences institution with approximately 1,400 students located in upstate New York, seeks candidates for a full-time, tenure-track position beginning September 2001. Successful candidates must demonstrate excellence in undergraduate teaching, establish a research program involving undergraduate students, and be willing to seek external funding for research. The Ph.D. is required. We are seeking an Ecologist who is committed to field research and has the ability to teach advanced courses in one or more of the following: ecology, forest ecology, or ornithology utilizing our field station. Other responsibilities will include teaching introductory biology courses and contributing to the environmental science and policy program. Please send a statement of teaching and research interests, curriculum vitae, and three letters of recommendation to: **Dr. Douglas A. Hamilton, Chair, Department of Biology, Hartwick College, Oneonta, NY 13820**. The College permits shared positions, so partners may apply individually or for one shared appointment. Review of applications will begin immediately and continue until the position is filled. *Hartwick College is an Equal Opportunity Employer. Women and members of underrepresented groups are especially encouraged to apply.*

SCIENTIFIC CURATORS PROTEOME INC.

Proteome is a rapidly growing company at the forefront of the bioinformation revolution that provides comprehensively curated protein databases to the pharmaceutical industry and to academia. We have many openings for Scientific Curators, who collect and integrate protein information for our multispecies databases. Candidates must have training in mammalian or model systems, a wide knowledge of cell biology or related fields, excellent writing skills, and a Ph.D. Curators may work full- or part-time, on-site or remotely, which offers maximum personal flexibility. Opportunities exist to advance to positions of greater responsibility in an exciting work environment. Please send a cover letter and curriculum vitae to: **Human Resources, Proteome Inc., 100 Cummings Center, Suite 435M, Beverly, MA 01915**. E-mail: hr@proteome.com. See [website: www.proteome.com](http://www.proteome.com) for more information. *An Equal Opportunity Employer.*

ASSISTANT/ASSOCIATE PROFESSOR: The Department of Food Science and Human Nutrition, Michigan State University, seeks applicants for a tenure-track position in human nutrition. The successful candidate will develop a research program in biochemical/molecular nutrition and will teach and advise students. Application deadline is October 15, 2000. For more information, see our [website: http://www.msu.edu/unit/fshn](http://www.msu.edu/unit/fshn) or contact: **Joseph Schroeder**; Telephone: 517-353-9878; e-mail: schroes58@msu.edu. *Equal Opportunity Employer/Affirmative Action.*

RESEARCH SCIENTIST: Director of research and development to join start-up business midway through a research and development project funded by NIH, DOE, and DOD. Responsible for continued grant and contract proposal applications. Experience in research in clinical pathology and hematology desired. Mechanical, electrical, optical, and software experience helpful. Qualifications: must be a U.S. citizen, Ph.D., experienced in clinical research, successful with peer review process. Opportunity offers a substantial stock option. Only entrepreneurs need apply. E-mail: **Roy Yeoman at MEI@promarkva.com**.

POSTDOCTORAL FELLOWSHIP opening in molecular biology/biochemistry. Project includes elucidation of signal transduction mechanism mediated by a protein-tyrosine phosphatase in osteoclasts. Candidates should have experience in both basic biochemistry and molecular biology. Possibility of long-term position exists. Salary, benefits competitive. Send cover letter, résumé, and names of three references to: **Dr. K-H William Lau, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354**.

Opportunities in CNS Research

Winnersh

Vernalis is a UK based pharmaceutical company and our objective is to create a profitable and successful business from research and development focusing primarily on diseases of the Central Nervous System. Formed in December 1999 following the merger of Vanguard Medical Group plc and Cerebrus Pharmaceuticals, Vernalis now plans to expand its research function and a number of new challenging opportunities have been identified.

Molecular Pharmacology

Molecular Pharmacologist

A scientist is required to join the Cell Biology & Pharmacology Group running functional assays using human recombinant cell lines. Industrial experience would be an advantage. Ref: MP/RP/0900/26

Neuropharmacology

In the area of pain research, we have a number of innovative projects aiming to discover and develop new and effective drugs for the treatment of neuropathic pain. One of these is a joint project with the prestigious Wolfson Institute for Biomedical Research (London UK). We are seeking to recruit:

- A PhD level Scientist, or equivalent, with experience of in-vivo models of neuropathic pain. Electrophysiological experience would be an advantage. Ref: GK/0900/38

Candidates should be team players, and a desire to contribute to the drug discovery process is essential.

Pre-Clinical Evaluation

Cardiovascular Pharmacologist

An exciting career opportunity exists for a graduate Pharmacologist (BSc/MSc) to join the Pre-Clinical Evaluation Department. The successful candidate will have at least 2 years

practical in-vivo experience in cardiovascular and respiratory pharmacology, gained in industry or academia. Previous experience of radiotelemetry techniques would be a particular advantage. As a key member of a multi-disciplinary team of scientists you will need to be organised, computer literate, with excellent communication skills. Ref: TM /0900/36

In-vivo Metabolism Scientist

Applications are invited from life sciences graduates with laboratory experience, preferably within an industrial environment, to join the DMPK group. The role will involve in-vivo characterisation of novel compounds and therefore previous experience and possession of a Home Office Licence would be essential.

A good understanding of Pharmacokinetics and Drug Metabolism is preferred. The ideal candidate should have a flexible approach to work and be able to assume responsibility for their work schedule. They should also have proven ability to work in a team and possess excellent communication skills. Ref: TM/0900/58/59

To apply, please send your CV, along with a covering letter detailing your suitability for the post and your current remuneration details, quoting the reference number, to The Human Resources Department, Vernalis Research Limited, Oakdene Court, 613 Reading Road, Winnersh, Wokingham, Berkshire RG41 5UA. Or e-mail us at hr.research@vernalis.com

Closing date for applications: 6th October 2000.

To find out more about the company visit our website at www.vernalis.com



POSITIONS OPEN

POSTDOCTORAL RESEARCH RETINAL NEUROBIOLOGY YALE UNIVERSITY

Two Postdoctoral positions are available immediately for NIH-sponsored research to study synaptic plasticity in the mammalian retina. The project employs electrophysiological (patch clamp, extracellular recording with multielectrode array, and ERG recordings) and anatomical (immunohistochemical and dye labeling, light and confocal microscopy) techniques to investigate developmental and experience-dependent synaptic regulation in mouse retina. The applicants should have a Ph.D. with solid background and experience in areas of electrophysiology or neuroscience. Salary starting at \$26,000 per year. Please send curriculum vitae, a description of research experience, and the names and addresses of three references to:

Ning Tian, M.D., Ph.D.
Assistant Professor
Department of Ophthalmology
and Visual Science
Yale University, School of Medicine
330 Cedar Street, BML 212
New Haven, CT 06520 U.S.A.
Telephone: 203-785-2723
E-mail: ning.tian@yale.edu

POSTDOCTORAL POSITION IN RNA PROCESSING AND EXPORT University of California, Irvine

A Postdoctoral position is available to study the mechanism of action of a multifunctional viral regulatory protein that affects cellular mRNA splicing and is required for the export of viral mRNAs. Present studies take advantage of genetic and biochemical approaches in mammalian cells and in yeast to probe interactions between this viral posttranscriptional regulator and cellular factors and to examine the functional consequences of these interactions (see *Genes Dev.* 12:868-879; *Methods* 15:95-104; *J. Virol.* 73:3246-3257; *Virology* 257:341-351). Candidates should possess a recent Ph.D. and have a strong background in molecular biology, biochemistry, and cellular biology. Please send curriculum vitae, summary of research experience, and the names of three references to: **Dr. Rozanne Sandri-Goldin, Department of Microbiology and Molecular Genetics, College of Medicine, B240 Medical Sciences I, University of California, Irvine, CA 92697-4025.** Application materials may be sent electronically to e-mail: msandri@uci.edu. The University of California is an Equal Opportunity Employer committed to excellence through diversity.

POSTDOCTORAL POSITION available at the University of Pennsylvania to study metastasis. The project will focus upon the interaction between circulating tumor cells and the endothelium using molecular techniques (including gene arrays) combined with utilization of genetically altered mice and advanced imaging techniques. Please send curriculum vitae and three references to: **Ruth J. Muschel, M.D., Ph.D., Professor, University of Pennsylvania, Department of Pathology and Laboratory of Medical and Radiation Oncology, Room 269 John Morgan Building, 3620 Hamilton Walk, Philadelphia, PA 19104.** E-mail: muschel@xrt.upenn.edu.

POSTDOCTORAL POSITION is available immediately to study signal transduction and cell death regulation. Strong background in molecular biology/biochemistry with excellent technical skill required. Send curriculum vitae and names of three references to: **Dr. Alakananda Basu, Department of Molecular Biology and Immunology, Medical Education Building 2, University of North Texas Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699.** Telephone: 817-735-2487; e-mail: abasu@hsc.unt.edu. University of North Texas Health Science Center is an Equal Employment Opportunity/Affirmative Action Institution.

POSITIONS OPEN

POSTDOCTORAL POSITIONS Center for Biologics Evaluation and Research Food and Drug Administration

The Division of Monoclonal Antibodies is searching for Postdoctoral candidates to fill two positions. The appointments are for two to three years with a starting salary of \$33,000 to \$38,000 depending on experience and are available immediately. The laboratories are located on the NIH campus. The address is: **DMA/CBER 29 Lincoln Drive, NIH Building 29B, Room 3NN18, Bethesda, MD 20892-4555.** FAX: 301-827-0852 with attention to the appropriate Principal Investigator contact listed below or e-mail as indicated below.

Laboratory of Immunobiology (LIB). The LIB has a position available to study signal transduction pathways and the cytoskeleton in tumor cell biology. Current studies in the laboratory emphasize the roles and regulation of tropomyosin and kinase suppressor of Ras (KSR) in transformation (*JBC* 273:32182, 1998; *MBC* 8:897, 1997). Experience in molecular biology and biochemistry is essential. Knowledge of cell biology and an interest in signal transduction and cancer would be beneficial. Contact: **Dr. Richard Janssen; e-mail: janssen@cber.fda.gov.**

Laboratory of Molecular and Developmental Immunology (LMDI). The LMDI has a position available for someone with zero to three years of postdoctoral training to study T cell requirements for responses to childhood vaccines such as Hib, DtaP, and IPV in a murine model. Experience in cellular and molecular biology and work with mice are essential. Prior experience with vaccines would be helpful. (*Infect. and Immun.* 66:5450-5456, 1998; 68:239-246, 2000). Contact: **Dr. Kathryn Stein; e-mail: stein@cber.fda.gov.**

POSTDOCTORAL FELLOW NEUROCHEMISTRY, NEUROSCIENCE

A Postdoctoral position is available to study neurotransmitters (glutamate and catecholamine) involved in mechanisms of pain and analgesia in the central nervous system. Experience in neurochemical (HPLC) assay and electrophysiological studies is preferred. Send curriculum vitae and the names of three references to: **Dr. Hui-Lin Pan, Penn State University College of Medicine, The Milton S. Hershey Medical Center, Department of Anesthesiology, P.O. Box 850, H187, Hershey, PA 17033.**

Two POSTDOCTORAL POSITIONS are available to investigate chemokine modulation of leukocyte selectin and β 2-integrin function in the presence of fluid shear. Related projects include platelet-leukocyte interactions and receptor-targeted drug delivery. Candidates should possess a Ph.D. in biophysics, cell biology, or engineering. Positions are funded through the NIH and American Heart Association. Please contact: **Michael B. Lawrence, Ph.D., Associate Professor, Biomedical Engineering, Box 800759 Health System, University of Virginia, Charlottesville, VA 22908-0759.** E-mail: mbl2a@virginia.edu.

POSTDOCTORAL POSITIONS available (1) to develop novel adenovirus vectors for gene therapy and (2) to study molecular basis of porcine circoviral pathogenesis. Experience in tissue culture, molecular techniques, and immunological assays desirable. Send curriculum vitae to: **Suresh Mittal, Ph.D., Department of Veterinary Pathobiology, 1290 Lynn Hall, Purdue University, West Lafayette, IN 47907.** FAX: 765-494-9830; e-mail: skmittal@vet.purdue.edu. Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

A POSTDOCTORAL POSITION is available at the Massachusetts General Hospital, Harvard Medical School, in the area of hematopoiesis and immune reconstitution. A Ph.D. and/or M.D. degree, expertise in cell and/or molecular biology, and experience with primary cell culture is required. Please send a letter of interest and curriculum vitae electronically to: **Dr. David Scadden via e-mail: scadden.david@mgh.harvard.edu.** Female and minority candidates are encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL POSITIONS MOLECULAR GENETICS AND GENETIC EPIDEMIOLOGY University of Maryland, Baltimore

The Division of Endocrinology, Diabetes, and Nutrition is seeking two Postdoctoral Fellows to study the molecular genetics and the genetic epidemiology of Type 2 diabetes, obesity, osteoporosis, hypertension, and other complex diseases. The first position requires a Ph.D. degree in cell biology, molecular biology, or a related field and an interest in basic laboratory research. Experience in molecular and cell biology, gene mapping, and/or genomics is preferred. The second position requires a Ph.D. or M.D. in genetic epidemiology, statistics, or related field and an interest in characterizing the genetic and nongenetic determinants of disease and detecting and mapping the genes that influence complex traits. The candidates will work with a highly interactive group of scientists, including Epidemiologists, Geneticists, and Nutritionists. Please send curriculum vitae and three letters of recommendation to: **Alan R. Shuldiner, M.D., University of Maryland School of Medicine, 725 West Lombard Street, Room S420, Baltimore, MD 21201-1192.** The University of Maryland is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS OPIOID NEUROPHYSIOLOGY

Two positions are available to study the function of opioid and other receptor systems (see *Nature* 389:382-385, 1997; *Neuron* 26:515-522, 2000) and the mechanisms of opioid tolerance. Projects will incorporate cellular electrophysiological studies with behavioral and/or molecular analysis. Expertise in patch clamp techniques *in vitro* is essential. Behavioral or molecular experience is preferable. Please send your curriculum vitae and contact information for three references to: **Dr. Zhizhong Pan, Division of Anesthesiology, Box 42, M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030.** E-mail: zzpan@mdanderson.org. Equal Employment Opportunity Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL POSITION to study the regulation of herpes virus gene expression *in vitro* and *in vivo*. The studies include structure/function analysis of the viral regulatory proteins, array analysis and the biochemistry of virus/host interactions, and *in vitro* transcription analysis. Applicants should possess a Doctoral degree in molecular genetics, biochemistry, or virology. Applicants should send current curriculum vitae and list of references to:

**Neal DeLuca, Ph.D., Professor
Department of Molecular Genetics
and Biochemistry
University of Pittsburgh, School of Medicine
E1257 Biomedical Science Tower
Pittsburgh, PA 15261
E-mail: ndeluca@pitt.edu**

POSTDOCTORAL POSITION

An NIH-funded position in molecular microbiology to identify and study genes/proteins responsible for antibiotic resistance of bacterial biofilms using a genomics approach. The Biotechnology Center of Tufts University is located in a new building at the Medford campus, 15 minutes from downtown Boston. Please e-mail curriculum vitae and names of three references to: **Dr. Kim Lewis; e-mail: klewis@tufts.edu.** (Biotechnology Center, Tufts University, 4 Colby Street, Medford, MA 02155. Website: <http://ase.tufts.edu/biotech/kimhomepage.htm>).

POSTDOCTORAL RESEARCH FELLOW position available to conduct research on molecular and cellular mechanisms of atherogenesis. Send curriculum vitae to: **Dr. Alan Tall, Columbia University, Department of Medicine, 630 West 168th Street, New York, NY 10032.** We are an Equal Opportunity/Affirmative Action Employer.


ISREC

 Institut Suisse de Recherche Experimentale sur le Cancer
 Schweizerisches Institut für Experimentelle Krebsforschung
 Swiss Institute for Experimental Cancer Research

ISREC (www.isrec.ch) is part of an international biomedical research complex that includes the Biochemistry Institute of the University of Lausanne, a branch of the Ludwig Institute for Cancer Research and a branch of the Swiss Institute of Bioinformatics (SIB). Located on the splendid hills of Lake Geneva just outside Lausanne, Switzerland, ISREC provides excellent working conditions including mouse transgenic, histology, sequencing, peptide, antibody and microarray core facilities.

ISREC invites applications for **two Group Leader positions** at the junior or senior level. Applicants should have a Ph.D. and/or M.D. degree and are expected to develop an internationally competitive research program using modern techniques in molecular cell biology and/or molecular genetics.

Group Leader position (ref. 101)

Candidates should have an international reputation in one of the following areas: cell cycle control, cellular senescence, genomic instability, chromatin regulation, DNA repair, or telomere biology.

Group Leader position (ref. 102)

Candidates should have an international reputation in one of the following areas: stem cell biology, angiogenesis, developmental biology, tumor-host interactions, or mouse models relevant to growth control and cancer.

Curriculum vitae, research interests as well as names and addresses of 3-5 references should be submitted electronically to:

Corinne Frehner
 (Corinne.Frehner@isrec.unil.ch)

Closing date for applications: October 31, 2000.

Interested candidates are referred to our website (www.isrec.ch). Further information can be obtained from

Dr. Matthias Peter (ref. 101)
 (Matthias.Peter@isrec.unil.ch) or
 Dr. Andreas Trumpp (ref. 102)
 (Andreas.Trumpp@isrec.unil.ch)

Molecular Scientist – GI Inflammation

The Department of Medicine, McMaster University Faculty of Health Sciences, invites applicants for a full-time faculty position at the level of Assistant/Associate Professor. The successful candidate must have a Ph.D. or equivalent, and is required to have a background in the area of gastrointestinal inflammation with particular expertise in the molecular basis of inflammation. Experience in the areas of transcriptional factor regulation and in gene transfer will be considered an asset.

The candidate will join an active group in the area of intestinal inflammation and will be cross appointed in the new Centre of Gene Therapy and Immune Modulation. The candidate will be expected to collaborate closely with members of the Intestinal Diseases Research Program and with others interested in molecular aspects of inflammation and gene therapy. The candidate will be expected to develop his or her own independent research program and to apply for independent salary support. Salary will be commensurate with experience.

Applicants should send their C.V., a statement of their research interests and future plans, and the names of three references, to: **Dr. Stephen Collins, Head, Division of Gastroenterology, Glaxo Wellcome Chair of Gastroenterology, McMaster University Medical Centre, 1200 Main Street West, Room 4W8, Hamilton, Ontario, Canada L8N 3Z5**

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.

McMaster University is committed to employment equity and encourages applications from all qualified candidates, including aboriginal peoples, persons with disabilities, members of visible minorities, and women.

"An equal opportunity employer"



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

**Assistant Professor in Physical Geography,
especially Plant - Soil Environments and Natural Resources**

The successful candidate should develop an internationally recognized research program on living spatio-temporal systems at various scales. Strong interest in quantitative investigation and modelling of soils, vegetation and/or landscape ecology with respect to environmental aspects such as climate change, natural resources management or soil degradation is expected. Involvement in transdisciplinary research interfacing with abiotic phenomena of physical geography, economic aspects, development research and earth observation/geoinformatics/geostatistics is desirable.

The tenure-track position is in the Department of Geography (<http://www.geo.unizh.ch>), which is equipped with modern laboratories for soil/pollen analysis, radiocarbon/exposure dating, remote sensing and geoinformatics. The professorship and its staff will contribute to a teaching program in geography and environmental sciences. We are looking for excellence in teaching a modern geography of soils, vegetation and landscape dynamics, as well as in conducting field and laboratory courses and supervising thesis-related work. It is expected that the successful candidate will be German-speaking or acquire proficiency in the German language within two years.

Please submit a detailed curriculum vitae, a statement of research interests, a list of publications, three recent key publications, information on teaching experience and the names and addresses of three potential referees before October 31, 2000 to the Dekan der Mathematisch-naturwissenschaftlichen Fakultät der Universität Zurich, Prof. Dr. K. Brassel, Winterthurerstrasse 190, CH-8057 Zurich.

For further information, please contact Prof. Dr. W. Haeberli, Tel. +41-(0)1-635 5120, E-mail: haeberli@geo.unizh.ch, Geographisches Institut, Winterthurerstrasse 190, CH-8057 Zürich.

POSITIONS OPEN

POSTDOCTORAL POSITION in microbial pathogenesis available to investigate heme acquisition systems used by *Haemophilus influenzae*. Emphasis will be placed on identification and characterization of *H. influenzae* outer membrane proteins which interact directly with human heme carrier proteins and on *H. influenzae* gene products involved in the regulation of expression of these proteins. Experience with recombinant DNA techniques is required; this project makes extensive use of mutant analysis in conjunction with a relevant animal model. Position includes salary, fringe benefits, and the opportunity to work in a dynamic research environment. Position available after October 1, 2000. 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: hansen01@utsw.swmed.edu.** *University of Texas Southwestern is an Equal Opportunity/Affirmative Action Employer.*

A POSTDOCTORAL POSITION in microbial pathogenesis is available to investigate virulence mechanisms of *Haemophilus ducreyi*, the etiologic agent of chancroid and a cofactor in transmission of HIV infection. Emphasis will be placed on characterization of *H. ducreyi* gene products involved in the regulation of expression of virulence factors. Experience with recombinant DNA techniques is required; this project makes extensive use of mutant analysis in conjunction with a relevant animal model. Position includes salary, fringe benefits, and the opportunity to work in a dynamic research environment. Position available after October 1, 2000. 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: hansen01@utsw.swmed.edu.** *University of Texas Southwestern is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION DEPARTMENT OF MEDICINE VANDERBILT UNIVERSITY Nashville, Tennessee, U.S.A.

Two Postdoctoral positions are available to study (1) branching morphogenesis and (2) angiogenesis. The focus of the laboratories is to study these two processes in both physiological (i.e., development, wound healing, tissue regeneration) and pathological conditions (i.e., tumor vascularization). Cell biology, molecular biology, and *in vivo* model systems (mainly mouse) are employed to conduct these studies. Interested candidates can send their curriculum vitae to:

Ambra Pozzi, Ph.D. or Roy Zent, M.D., Ph.D.
Department of Cell Biology
CVN 222, CVN 23
10550 North Torrey Pines Road
La Jolla, CA 92037
FAX: 858-784-7412

MOLECULAR IMMUNOLOGY OF IMMUNE RESPONSE TO VACCINES

POSTDOCTORAL POSITION available at Case Western Reserve University to study molecular mechanisms of antibody variable region gene usage, B cell and T cell responses, and antigen processing after challenge with glycoconjugate vaccines. Strong skills in molecular biology, cell culture, and immunology are desirable. Interested candidates possessing a Ph.D. in molecular biology, immunology, or related areas should reply with curriculum vitae and references to: **John R. Schreiber, M.D., Chief, Division of Infectious Diseases, Rainbow Babies and Children's Hospital, 11100 Euclid Avenue, Cleveland, OH 44106. E-mail: jrs3@po.cwru.edu; FAX: 216-844-8362.** *Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are strongly encouraged.*

POSITIONS OPEN

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. Candidates have the opportunity to obtain the Doctor of Optometry (O.D.) degree in 27 months. The program begins annually in June. Employment opportunities exist in private practice, industry, faculty positions in optometric education, and research. Contact: **The Admissions Office, Department S, 424 Beacon Street, Boston, MA 02115. Telephone: 800-824-5526; e-mail: admissio@ne-optometry.edu.** Additional information, see website: **www.ne-optometry.edu.** Application deadline: March 1, 2001.

NATIONAL CANCER INSTITUTE NATIONAL INSTITUTES OF HEALTH

POSTDOCTORAL POSITION is available immediately to study growth factors and proteomics in lung cancer. Candidates should possess a Ph.D. and/or M.D. degree and a strong background in biochemistry, cell biology, and/or molecular biology. Letters of application describing research interests, curriculum vitae, and names of three references should be sent to: **Dr. Terry Moody, Medicine Branch, Building KWC, Room 300, 9610 Medical Center Drive, Rockville, MD 20850. Telephone: 301-402-3128; FAX: 301-402-4422; e-mail: moodyt@bprb.nci.nih.gov.**

POSTDOCTORAL POSITION

Available immediately for Ph.D. or M.D. in immunology. Research will include studies on cellular and molecular mechanisms of human B cell differentiation and lymphomagenesis (*J. Immunol.* 157:1006, 1996; *J. Exp. Med.* 191:1077, 2000). Send curriculum vitae to:

Dr. Y. S. Choi
Laboratory of Cellular Immunology
Alton Ochsner Medical Foundation
1516 Jefferson Highway
New Orleans, LA 70121

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POSTDOCTORAL POSITIONS in molecular neurobiology available immediately to create mouse models to study pathophysiology of DYT1 dystonia using tissue-specific knockout technology. Experience in molecular biology and cell culture is desirable and knowledge in neuroscience is a plus. Contact: **Dr. Yuqing Li, 3347 Beckman Institute, University of Illinois at Urbana-Champaign, 405 North Mathews Avenue, Urbana, IL 61801. Telephone: 217-244-1614; FAX: 217-244-5180; website: <http://www.beckman.uiuc.edu/faculty/yli.html>; e-mail: y-li4@uiuc.edu.**

POSTDOCTORAL POSITIONS available to study (1) tumor necrosis-mediated induction of apoptosis and activation of NF- κ B, (2) mechanisms through which signaling through receptors for vascular endothelial growth factor induce angiogenesis and cancer progression, and (3) interplay between the PTEN tumor suppressor and Akt in cell death/cell survival. Send curriculum vitae, names, FAX numbers, and/or e-mail addresses of three references to: **Dr. David B. Donner, Walther Oncology Center, Indiana University School of Medicine, 1044 West Walnut Street, Indianapolis, IN 46202. FAX: 317-274-7592; e-mail: ddonner@IUPUI.edu.**

POSTDOCTORAL POSITION available to study the structure and function of novel membrane transport proteins of mitochondria. Please send curriculum vitae and names of three references to: **Dr. Hartmut Wohlrab, Boston Biomedical Research Institute/Harvard Medical School, 64 Grove Street, Watertown, MA 02472. E-mail: wohlrab@bbri.org.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS CANCER GENETICS/EPIGENETICS AND DNA CHIPS

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

POSTDOCTORAL POSITION is available at the University of California for studies involving a *Drosophila* model of human epilepsy. A familiarity with *Drosophila* genetics, molecular biology, and/or electrophysiology is desirable. Salary will be commensurate with experience. Qualified applicant should send curriculum vitae and the names, addresses, telephone numbers, and e-mail addresses of three references to: **Dr. Mark Tanouye, Department of Environmental Science, Policy, and Management, University of California, Berkeley, CA 94720. Telephone: 510-642-9404. Application deadline: October 31, 2000. E-mail: tanouye@uclink4.berkeley.edu.** *The University of California at Berkeley is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION

The Department of Horticulture, University of Wisconsin-Madison is seeking an **ASSISTANT PROFESSOR** (tenure track). Training in whole plant physiology or ecology, rhizosphere ecology, nutrient uptake and utilization, root-microbe interaction, or reproductive biology desired. This position supports Wisconsin's fruit industries. Send curriculum vitae, a statement of professional goals, and names of four references to: **Dr. Teryl R. Roper, Chair, Search and Screen Committee, Department of Horticulture, 1575 Linden Drive, Madison, WI 53706. Telephone: 608-262-9751; FAX: 608-262-4743. Deadline: November 15, 2000.** *The University of Wisconsin-Madison is an Affirmative Action/Equal Opportunity Employer.*

Hanover College seeks Botanist for **ASSISTANT PROFESSOR**, tenure-track position, to teach field-oriented plant taxonomy course, introductory biology, and with an interest in developing courses and directing student research in areas of molecular systematics and/or developmental biology. Ph.D. required. Begins August 2001. Send application letter, curriculum vitae, transcripts, and three letters of reference to: **Dr. Walter Bruyninckx, Chair, Biology Search Committee, c/o Christine Wilcox, Hanover College, P.O. Box 108, Hanover, IN 47243-0108.** Review of applications begins immediately and continues until position is filled. *Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*



The University of North Carolina at Chapel Hill

Faculty Position Proteomics

The Department of Biochemistry & Biophysics in the UNC School of Medicine invites applications for a tenure-track faculty position in the area of proteomics. Applicants should be experienced in advanced analytical aspects of proteome research, especially the application of mass spectrometry. Though primarily aimed at the assistant professor level, senior candidates with established and successful independent research programs will be considered. Junior candidates should have at least three years of postdoctoral research experience. The position includes a competitive start-up package, quality research space, and access to numerous, state-of-the-art core facilities. The Department has a highly successful graduate program, and is also the center of an outstanding, interdisciplinary biophysics predoctoral training program.

This search is part of a University- and School of Medicine-wide bioinformatics initiative that includes six, new faculty positions, as well as funds to develop a bioinformatics training program. Recruited faculty will additionally be members of the new and expanding UNC-CH Genomics Center.

Review of applications will begin November 1, 2000, and continue until the position is filled. To apply, please send a CV, statement of research interests, representative publications, and at least three letters of recommendation to:

Proteomics Faculty Search Committee
Department of Biochemistry & Biophysics, CB#7260
The University of North Carolina at Chapel Hill, Chapel Hill, NC
27599-7260

Homepage • <http://www.med.unc.edu/wrkunits/2depts/biochem/>
The University of North Carolina is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

EUROPEAN OPPORTUNITIES

INSTITUTE of CELL and MOLECULAR BIOLOGY

LECTURESHIP IN MOLECULAR GENETICS

You will be appointed for 5 years to a full time position. You will be expected to run a thriving research group within the theme of molecular genetics via successful applications for research grants and contribute to undergraduate courses in genetics and molecular biology. The Institute offers a world class environment for scientists at the forefront of molecular, cellular and developmental research.

Salary range: £18,731 - £30,967 p.a. with placement according to experience. Please quote REF: 306708SI. Closing date: 13 October 2000.

Further particulars and application packs should be obtained from
PERSONNEL DEPARTMENT,
The University of Edinburgh,
9-16 Chambers Street, Edinburgh
EH1 1HT. Tel: 0131 650 2511.

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EUROPEAN OPPORTUNITIES

It's people that make the difference.
Deliver the next generation of antibody-based drugs.

Micromet is the leader in development of novel antibody-based protein drugs for eradication of diseased cells. Micromet combines an integrated drug development environment with an outstanding biology-driven research organization. We are based at Martinsried / Munich, the premier biotechnology campus in Europe.

Project Manager

We seek a Project Manager to join our Management Team. You coordinate our drug development programs across process, preclinical and clinical development and ensure that critical path activities are prioritized and sufficient resources are allocated internally and at the sites of CROs. You communicate project plans and status reports to corporate partners. This challenging role requires a thorough understanding of the drug development process and a personality capable of integrating different research teams. You have a Ph.D. in biology, preferably in immunology and have performed post-doctoral work in a drug development environment. Your leadership and communication skills are essential and require fluency in English and German.

Patent Manager

We seek a scientist with a background in immunology and cell biology to translate exciting research results into intellectual property. You will have a pivotal role in communicating with Micromet's scientists and outside patent counsels. Your scientific experience will be key to understand the implications of research results and to advise the science and development team on strategies to minimise infringement of third party rights. Ph.D. experience and a strong scientific track record are mandatory, post-doctoral training and exposure to intellectual property issues are a plus. You are fluent in English and German and have strong communication skills.

Scientist Preclinical Research

We have two positions for scientists to assume project responsibility for preclinical development of new protein drugs. A good understanding of the underlying disease mechanism in either tumor, inflammatory or autoimmune disease settings is required. You will develop and validate non-radioactive cell-based assays for the characterisation of new drug candidates and to support process-development activities. Your capabilities reach beyond biochemical analysis into pathohistology and animal efficacy studies. Required are a Ph.D. in biology (or an M.D.) and post-doctoral experience in immunology or cell biology. Your ability to facilitate effective collaborations with external partners will be essential. You are fluent in English; German is a plus.

We offer competitive salaries and outstanding benefits along with the challenges of a growing company. For confidential consideration, send your resume to:

Micromet GmbH • Personalabteilung / Personnel Department
Am Klopferspitz 19 • 82152 Martinsried; Germany

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POSITIONS OPEN

The VA Alcohol Core Center at the University of Nebraska Medical Center (UNMC)/Omaha Veterans Administration Medical Center (OVAMC) has an immediate opening for a **POSTDOCTORAL POSITION**. The candidate should have a Ph.D. in cell biology, biochemistry, or a related field. Familiarity with immunology is desired but not necessary. The aim of this research is to investigate the response of liver endothelial cells to aldehyde-modified proteins. Particular attention is focused on the modulation of adhesion molecules, cytokine, and fibronectin secretion following exposure to these modified proteins. The relationship of these parameters to alcohol liver disease will also be investigated. This research is supported by funds through the NIAAA, and funding is for a minimum of two to three years (initial one-year appointment; reappointments on a yearly basis). Interested candidates should send their curriculum vitae to: **Geoffrey M. Thiele, Ph.D., OVAMC, 4101 Woolworth Avenue, Omaha, NE 68105. Telephone: 402-346-8800, extension 3550; FAX: 402-449-0604; e-mail: gthiele@unmc.edu.** UNMC/OVAMC is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. Not an H-1 or J-1 opportunity.

NIH-funded **POSTDOCTORAL POSITION** available November 2000 to participate in a comprehensive study using M cell-directed transgene vaccination. Conducted studies involve preclinical testing of our novel mucosal DNA delivery system to enhance mucosal antibody and CTL responses to HIV antigens. Qualified candidates (Ph.D. or M.D.) must have cellular immunology experience and ability to design experiments relevant to CD4 and CD8 T cell stimulation and cytokine assays. Some molecular biology experience is desirable. Send a letter of application, curriculum vitae, and names of three references to: **Dr. David W. Pascual, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-3610. FAX: 406-994-4303; e-mail: dpascual@montana.edu.** Americans With Disabilities Act/Affirmative Action/Equal Opportunity Veteran's preference.

POSTDOCTORAL POSITIONS available immediately to study proteins involved in the replication of the hepatitis C virus. Laboratory studies the structure and biochemistry of purified viral and host proteins to identify new drug targets and develop novel antiviral therapies. Send curriculum vitae and references to: **Dr. David N. Frick, Department of Biochemistry and Molecular Biology, New York Medical College, Valhalla, NY 10595. E-mail: David_Frick@NYMC.edu; FAX: 404-727-5767.** New York Medical College is an Equal Employment Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE POSITION available immediately to study the role of cell signaling in human cancer, especially as it relates to hormone-independent tumors. Ideal candidate will have a Ph.D. in biochemistry or a related field and postdoctoral experience. The successful applicant will be expected to use state-of-the-art science to elucidate molecular mechanisms that confer autocrine growth to prostate cancer cells. Send curriculum vitae and the names of three references to: **David M. Terrian, Ph.D., Anatomy and Cell Biology, Brody School of Medicine at East Carolina University, Greenville, NC 27858. E-mail: terriand@mail.ecu.edu.**

POSTDOCTORAL POSITION available to study genetic variation in *Helicobacter pylori* and its effect on gastric epithelial cells. Will study virulence factors in *H. pylori* from clinical specimens and in animal models. Candidate should have strengths in molecular biology and microbiology. Send curriculum vitae, three letters of reference, and brief statement of research interests and experience to: **Dr. Barbara Schneider, Department of Pathology, Louisiana State University Health Sciences Center, 1901 Perdido Street, New Orleans, LA 70112.** Louisiana State University Health Sciences Center is an Affirmative Action/Equal Employment Opportunity Employer.

POSITIONS OPEN



POSTDOCTORAL POSITIONS IN STRUCTURAL BIOLOGY Structural Biology Section National Institute of Allergy and Infectious Diseases

Postdoctoral positions are available immediately to study the structure and function of one or more surface proteins from *Plasmodium* sp., the pathogen that causes malaria, or to study one of several proteins of the immune system. We use biochemical and biophysical methods, aiming for insights into function by the determination of the X-ray structure of a biologically informative protein complex. This is an opportunity for persons with experience in biochemistry and/or molecular biology to crystallize a protein and to learn X-ray crystallography. Persons with experience in infectious disease research are especially encouraged to apply. Salary from \$30,000 to \$38,000.

Interested and highly motivated candidates having a Ph.D. or M.D. should send curriculum vitae and the names of three references to: **David N. Garboczi, Ph.D., NIAID/NIH, 12441 Parklawn Drive, Rockville, MD 20852. Telephone: 301-496-4773; FAX: 301-402-0284; e-mail: garboczi@coral.niaid.nih.gov.** The National Institute of Allergy and Infectious Diseases is an Equal Opportunity Employer.

POSTDOCTORAL FELLOW THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

Position available to study kidney-specific gene regulation, kidney development, or polycystic kidney disease. Ph.D. and/or M.D. with strong background in molecular genetics or developmental biology required. Send curriculum vitae and names of three references to:

**Dr. Peter Igarashi
Chief, Division of Nephrology
University of Texas Southwestern
5323 Harry Hines Boulevard
Dallas, TX 75390-8856
FAX: 214-648-2071
Website: www.swmed.edu/
home_pages/nephrology/**

University of Texas Southwestern is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in molecular genetics of myelination and neuronal differentiation is available at the McLaughlin Research Institute, a private institute that specializes in mouse genetics (website: <http://www.montana.edu/wwwmri/>). We are studying genes that are misexpressed in sciatic nerves or brains of mice that possess defects in myelination and neuronal differentiation to understand the genetic regulation of these processes. Send résumé and names and addresses of persons that can be contacted for references to: **John R. Bermingham, Jr., McLaughlin Research Institute, 1520 23rd Street South, Great Falls, MT 95405. E-mail: jrbrj@po.mri.montana.edu.**

POSTDOCTORAL POSITION available to study the mechanism of a potential tumor suppressor gene in the gastrointestinal tract. Experience in molecular biology, physiology, and biochemistry is required. Please send curriculum vitae and research summary to: **Dr. Chi-Chuan Tseng, Boston Medical Center, EBRC-513, 650 Albany Street, Boston, MA 02118. FAX: 617-638-7785.** Boston University is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION IMMUNOLOGY/MICROBIOLOGY

The Vascular Biology Research Laboratory in the Cardiovascular Research Institute at the Washington Hospital Center has a Postdoctoral Fellowship position available to study the role and molecular mechanisms of infectious agents on the development of vascular diseases such as atherosclerosis. Candidate should have a Ph.D. or M.D. with zero to two years of experience and will study mechanisms by which infectious agents augment local and systemic inflammation leading to vascular pathogenesis. Immunology expertise with knockout mouse models including cytotoxic T lymphocyte assays necessary. Experience with adoptive transfer and autoimmune models would be helpful. Applicants should send résumé with references and cover letter to:

**Dr. Stephen E. Epstein
Director, Cardiovascular Research Institute
Washington Hospital Center
110 Irving Street, N.W., Suite 4B-1
Washington, DC 20010**

A **POSTDOCTORAL POSITION** is available immediately to study the roles of complement activation and complement receptors (CD21 and CD35) in the normal immune response and autoimmune diseases. Projects designed to characterize the roles of complement activation and receptors are available in both human and mouse systems. Research approaches include molecular, cellular, transcriptional, structural, and transgenic methodologies. The training environment benefits from strong collaborative arrangements within the combined immunology program at University of Colorado Health Sciences Center, Barbara Davis Center for Diabetes, and the National Jewish Center for Immunology. A strong background in either molecular structure-function, biochemistry, or cellular immunology is required. Please send curriculum vitae and the names of three references to: **Dr. V. Michael Holers, Departments of Medicine and Immunology, Box B-115, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.** An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS are available for organic and/or bioorganic chemists and biochemists to study mechanisms of initiation of human cancer by estrogen quinones in a multidisciplinary research group. The research includes synthesis and structure determination of estrogen-nucleoside adducts and identification and quantitation of biologically formed specific estrogen metabolites, as well as DNA and glutathione adducts, with the scope of determining critical events in tumor initiation and potential biomarkers for susceptibility to cancer.

Salary is competitive and commensurate to research experience. Please send curriculum vitae with names of three references via e-mail or FAX to: **Dr. Ercole Cavallini, Eppley Cancer Institute, University of Nebraska Medical Center, Omaha, NE 68198-6805. Telephone: 402-559-7237; FAX: 402-559-8068; e-mail: ecavallie@unmc.edu.** Affirmative Action/Equal Employment Opportunity.

POSTDOCTORAL POSITION available immediately to characterize the molecular mechanism of action of novel synthetic classes of anticancer drugs that inhibit macromolecule synthesis, prevent microtubule assembly, block nucleoside transport, and/or induce DNA fragmentation. Cell cycle arrest, topoisomerase activity, DNA strand breakage, apoptosis, cardiotoxicity, and the circumvention of multidrug resistance will be studied. A background in biochemistry, molecular/tumor biology, and/or experimental therapeutics is required. Experience with drug testing in mouse tumor models *in vivo* is desirable. Submit résumé and reference letters to: **Dr. J.P. Perchellet, Anti-Cancer Drug Laboratory, Kansas State University, Division of Biology, Ackert Hall, Manhattan, KS 66506-4901. FAX: 785-532-6653; e-mail: jpperch@ksu.edu.** Kansas State University is an Equal Opportunity Employer and highly encourages diversity among its employees.



Our challenge is life.

The Evry Genomics Center is located in the Evry Genopôle within one of the most important European concentrations of Academic and Industrial research in the field of Genomics and Biotechnology. For the Evry Genomics Center we are looking for:

Senior Scientist in SNP Discovery

The candidate will be responsible to take the leadership of a team currently dedicated to integrate Single Nucleotide Polymorphism (SNP) discovery into the pipeline of gene characterization for the target selection and validation process for drug development. In addition, the team is responsible for marker selection as an essential function to Pharmacogenetics studies. The focus of this group is to develop new markers for association studies, linkage disequilibrium and pharmacogenetic studies. The candidate should therefore be able to manage a genomic production team and run technologies required for parallel mass data production related to sequencing, SNP discovery and validation in population genetic studies. A solid background in Human genetics, population genetics and computational biology as well as an excellent understanding of statistics and functional genomics are required.

Senior Scientist in Human Statistical Genetics and Genetic mapping

The candidate will be responsible to establish and take the lead of a team of data managers and statistical analysts in the field of Human genetic mapping. A broad scientific knowledge will enable the candidate to develop human genetic approaches applied to positional cloning and pharmacogenetic studies. A solid background in population genetics, epidemiology and statistical genetics as well as positional cloning technologies are required. The candidate should have a proven experience in team work and management as the team is at a key interface locally with the SNP discovery and the marker genotyping production teams and broadly with the project team members in all Aventis related positional cloning and pharmacogenetic projects.

Senior Scientist Computational Biology/Bioanalysis

The candidate will contribute to target identification and validation projects by using and developing innovative in silico biology approaches. Further responsibilities include testing and evaluating new applications and analysis approaches in the context of real disease-oriented projects. A broad scientific background should enable the candidate to perform genomic approaches to the characterization of new gene families. We are looking for candidates with Ph. D in Biology, statistics, structural biology, or related fields with a solid knowledge in Molecular Biology, genetics and/or drug design. A very solid experience in bioinformatic software and biological database analysis is required. Shell and Perl experience on Unix systems is mandatory and a basic knowledge of relational databases and SQL should be an advantage.

We expect

For all of the positions above, an excellent proven record in the field for at least 2-3 years of postdoctoral experience.

Excellent communication skills in English are prerequisite.

For application, please send a résumé indicating your full career details to: Isabelle AMALZIEU (isabelle.amalzieu@aventis.com), Aventis Pharma, 13 quai Jules-Guesde, BP 14, 94403 Vitry-sur-Seine, France.

MEDIASYSTEM



Universität Heidelberg

The **ZENTRUM FÜR MOLEKULARE BIOLOGIE HEIDELBERG (ZMBH)** at the University of Heidelberg invites applications from young scientists for a five year

GROUP LEADER POSITION

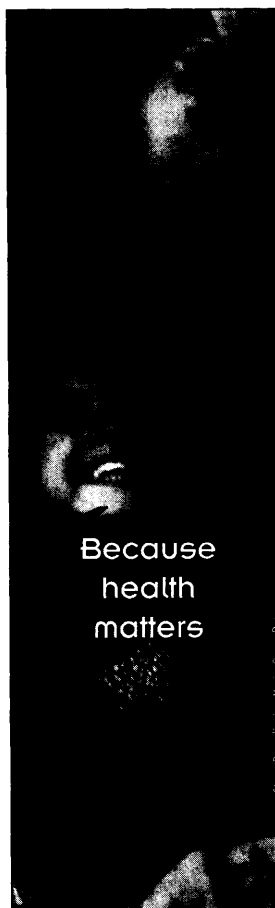
The successful candidate will have the opportunity to establish an independent research group. It is expected that his/her research program will contribute to the ZMBH's research activities which focus on molecular aspects of development and cell differentiation, cell biology (neurobiology), and mechanisms of pathogenicity. Also invited are applications of cell biologists employing high performance microscopy.

The holder of the position is expected to participate in the department's teaching program.

The ZMBH presently houses 15 independent research groups and offers excellent central facilities which include transgenic facilities, high performance mass spectrometry and microscopy, biocomputing and centralised administrative services.

Further details may be obtained from Prof. Dr. Renato Paro, Tel. +49 (0) 6221-54 6878, Fax +49 (0) 6221-54 5507.

Applications should be sent to the Director of the ZMBH, Im Neuenheimer Feld 282, D-69120 Heidelberg by **Oct. 31, 2000.**



Study Director

Réf. SDS

World wide pharmaceutical group with a turnover of 5,2 billion Euros. We owe our success to our 30 000 collaborators throughout 100 countries and profit in particular from our substantial commitment to innovative Research and Development.

We are seeking for our Toxicology Research Department located in Porcheville (30 miles west of Paris) a Study Director.

In our research group, the Study Director will be responsible for all aspects of toxicology studies:

- preparation and participation in the conduct of in vivo preclinical studies
- writing and presentation of results and reports
- interface and follow up for pharmaceutical product development in relation with the other research groups in our company

Profile: Applicants should possess a post graduate scientific background with preferably a specialisation in toxicology. A minimum of three years experience in the relevant field and fluent english are required.

Your communication and problem solving skills and ability to work as part of a team will be fundamental in your role.

To join our team, please send your candidature (handwritten + CV) with salary requirements to Sanofi-Synthelabo / Human Resources Service, Stéphane Turlais, ZI Limay-Porcheville, 2/8 Route de Rouen, 78440 Porcheville FRANCE.

sanofi-synthelabo

Because health matters

BDDP CORPORATE

POSITIONS OPEN

POSTDOCTORAL POSITION PARASITE VECTOR BIOCHEMISTRY

A position is available in the Postdoctoral Intramural Research Training Award (IRTA) or Visiting Fellow program at the National Institute of Allergy and Infectious Diseases, Laboratory of Parasitic Diseases, to work with **John Andersen, Ph.D.** in the Medical Entomology Section headed by **Jose Ribeiro, M.D., Ph.D.** A successful candidate would work on the structure and function of antihemostatic and immunomodulatory salivary proteins from blood-feeding arthropods. These are novel molecules with diverse pharmacological activities essential for ingestion of blood and transmission of parasitic diseases. Experience with protein purification and recombinant DNA techniques important. Computer and protein chemistry skills also desirable. Salary starts at \$29,000 and is commensurate with experience. Contact **John Andersen** at website: jandersen@niaid.nih.gov for information about specific application procedures. Applications must be postmarked by the close of business October 31, 2000 and sent to:

John F. Andersen
Laboratory of Parasitic Diseases
National Institutes of Health
Building 4, Room 126
4 Center Drive, MSC 0425
Bethesda, MD 20892-0425

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION DEVELOPMENTAL REGULATION OF TRANSCRIPTION

The Life Sciences Division of Ernest Orlando Lawrence Berkeley National Laboratory has an immediate opening for a Postdoctoral position in the laboratory of **Dr. Mark Biggin** to study principles by which transcription factors regulate gene expression during *Drosophila* development. We use a broad range of biochemical and genetic techniques to examine the *in vitro* and *in vivo* DNA binding specificities of developmental regulators and the range of genes they control. We are developing methods to examine these questions on a genomewide scale. Please submit one copy of your résumé and two letters of recommendation to: **Lawrence Berkeley National Laboratory, One Cyclotron Road, Biosciences HR Center, MS Donner, Berkeley, CA 94720.** Please cite Job LS/012446 in your cover letter. *Berkeley Laboratory is an Affirmative Action/Equal Employment Opportunity Employer.*

POSTDOCTORAL POSITIONS in cell biology. Positions are available to study mRNA transport and localization in yeast and in vertebrate cells. Several funded projects are available to identify the mechanisms, regulation, and consequences of the transport and anchoring of specific mRNAs. Methods include the tracking of mRNA transport in living cells using state-of-the-art light microscope techniques involving GFP fluorescence and time-lapse imaging. Candidates must have a Ph.D. with experience and publications in molecular and/or cellular biology or image analysis. Please send curriculum vitae and three letters of recommendation to: **Robert H. Singer, Professor and Director, Institute of Molecular Medicine, Golding 601, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, New York, NY 10461.** E-mail: rhsinger@acom.yu.edu. *Equal Opportunity Employer.*

One-year **POSTDOCTORAL POSITION** to study the effects of global warming on species diversity. Quantitative techniques will be used to examine the potential implications of rapidly shifting climate envelopes on diversity of terrestrial biological communities with a focus on North American forests. Experience modeling population or community processes is required. Send curriculum vitae, brief description of research interests, and contact information for three references to: **Dr. Jay R. Malcolm, Faculty of Forestry, University of Toronto, 33 Willcocks Street, Toronto, ON M5S 3B3 Canada.** E-mail: jay.malcolm@utoronto.ca.

POSITIONS OPEN



POSTDOCTORAL FELLOWSHIP POSITIONS IN CARDIOVASCULAR GENETICS The Donald W. Reynolds Cardiovascular Clinical Research Center at Stanford University

A large-scale effort is being initiated to identify human genes associated with atherosclerotic vascular disease. Sophisticated molecular biology techniques will be employed to clone vascular wall genes, which will then be evaluated for aberrant expression in the diseased vessel wall by microarray transcriptional profiling. Functional genomics approaches, as well as *in vitro* and *in vivo* assays, will be employed to study and prioritize candidate genes for use in genetic epidemiology studies. Positions are available for individuals with training in molecular biology, genomics, and human genetics to help with development of the panel of candidate genes. This work will employ latest technologies in microarray construction and analysis, sequence and microarray database construction, and algorithm design for high-throughput computerized data analysis. Fellows in these positions will have the unique opportunity to identify and study novel cardiovascular genes at the molecular and cellular level and to learn and benefit from genetic epidemiology studies aimed at linking these genes to human disease. In addition, Fellows will benefit from collaborations with the Stanford Human Genome Center and the Lawrence Berkeley National Laboratory. Send curriculum vitae to: **Marcia Gibbs, Faculty Affairs, Division of Cardiovascular Medicine, Stanford University School of Medicine, Falk Cardiovascular Research Center, 300 Pasteur Drive, Stanford, CA 94305-5406.** E-mail: mgibbs@cvmed.stanford.edu. *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

JULIUS L. CHAMBERS BIOMEDICAL/ BIOTECHNOLOGY RESEARCH INSTITUTE North Carolina Central University

RESEARCH SCIENTIST AND POSTDOCTORAL FELLOW positions are available in the Cardiovascular Disease Research and Neuroscience/Drug Abuse programs in the Biomedical/Biotechnology Research Institute at North Carolina Central University. Areas of investigation include (1) molecular physiologic mechanisms linking Ca^{2+} homeostasis and vascular function including the analysis of neuronal cell-vascular smooth muscle cell interactions using multiphoton laser confocal microscopy and molecular genetic approaches (**Richard Bukoski, Ph.D.**); and (2) biochemical and molecular mechanisms of cannabinoid drug action on cellular regulation, including ligand-receptor interactions, regulation of receptor G-protein interactions, and receptor-directed signal transduction pathways (**Allyn Howlett, Ph.D.**). Interested individuals should possess a Ph.D. and/or M.D. and submit curriculum vitae, description of research interests and career goals, and three letters of reference to the appropriate Investigator. Mail to: **Julius L. Chambers Biomedical/Biotechnology Research Institute, North Carolina Central University, 700 George Street, Durham, NC 27707.** *North Carolina Central University is a constituent institution of the University of North Carolina system and an Equal Opportunity/Affirmative Action Employer. NCCU complies with the Immigration Reform and Control Act of 1986.*

POSTDOCTORAL POSITIONS

Postdoctoral positions are available to study the structure/function of p21-activated protein kinase in the induction of cytosol and apoptosis and the molecular mechanisms involved. Expertise in molecular biology, biochemistry, and/or confocal microscopy with research experience in signal transduction is preferred. Please contact: **J.A. Traugh, Department of Biochemistry, University of California, Riverside, CA 92521.** E-mail: Traugh@mail.ucr.edu.

POSITIONS OPEN

POSTDOCTORAL POSITION DNA MICROARRAY TECHNOLOGY RESEARCH

The DNA Microarray Section of the W. M. Keck Biotechnology Resource Laboratory at Yale University seeks applications for a Postdoctoral position available November 1, 2000. The successful candidate will have a Ph.D. in molecular biology or a related field, excellent computer skills, and extensive experience using state-of-the-art methods for analyzing gene expression. Prior experience using DNA microarrays is preferable but not a requirement. Joining a rapidly growing and multidisciplinary group of individuals dedicated to providing technology services to investigators at Yale and beyond, this individual's research will be directed toward advancing DNA microarray methodology using model systems including mouse, human, *Drosophila*, and *Arabidopsis*. The position will be for one year, renewable for at least one additional year. To apply, please send curriculum vitae including a statement of research interests and contact information for three references via e-mail to: **Dr. Janet Hager, Keck Biotechnology Resource Laboratory at Yale, Array Technology, 333 Cedar Street, WWW 5, New Haven, CT 06520.** E-mail: janet.hager@yale.edu; website: http://info.med.yale.edu/wmkeck/dna_arrays.htm. *Yale University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS

The City of Hope National Medical Center and Beckman Research Institute has Postdoctoral positions available in the laboratory of **Dr. Binghui Shen (B.S./SCI)** to study structures and functions of nucleases involved in DNA replication/repair/genome stability and their deficiency in carcinogenesis. The candidates should have experience and/or be interested in (1) biochemical and kinetic analysis of nucleases of other enzymes or (2) establishing transgenic mouse models.

For more information, see website: www.cityofhope.org/ctb/shenpg.html. Applications including a cover letter, curriculum vitae, statement of research interest, and three recommendation letters should be forwarded to: **Ileana Abich, Needleman Building, Room 209, City of Hope, 1500 East Duarte Road, Duarte, CA 91010.** FAX: 626-930-5394; e-mail: iabich@coh.org.

Mayo Clinic POSTDOCTORAL POSITION with NIH training grant support is available for a Postdoctoral Fellow with an interest in the molecular mechanism of liver cancer development. The project is a collaborative effort between the Division of Gastroenterology and Hepatology and the Cancer Genetics Program of the Mayo Comprehensive Cancer Center. Ongoing studies include chromosomal fragile site cloning, microarray analysis of liver cancer, and discovery of potential therapeutic gene targets in liver carcinogenesis. *Candidates must be U.S. citizens or permanent residents and have an M.D. or Ph.D. degree.* Please send curriculum vitae and the names of three references to: **Lewis R. Roberts, M.D., Ph.D., Division of Gastroenterology and Hepatology, Mayo Clinic, 200 First Street S.W., Rochester, MN 55905.** Telephone: 507-284-4823; e-mail: roberts.lewis@mayo.edu. *Mayo Foundation is an Affirmative Action/Equal Opportunity Employer and Educator.*

POSTDOCTORAL POSITIONS are available at Harvard Medical School, Department of Ophthalmology. Research addresses fundamental problems in the function, structure, and development of the eye and the mechanisms of eye diseases through the application of tools of classical/molecular genetics, cell biology, biochemistry, and electrophysiology in a variety of model systems ranging from *Drosophila* to the mouse. Current openings are available in the laboratories of **Drs. Arshavsky, Li, Makino, Malicki, and Pignoni.** Send applications by e-mail or FAX to addresses listed at website: www.howelaboratory.harvard.edu. *Equal Opportunity Employer.*



UNIVERSITÉ DE GENÈVE

The Faculty of Sciences of the University of Geneva, Switzerland, invites applications for a position of:

**Full or Associate Professor
(professeur ordinaire ou adjoint)
in the Department of Biochemistry**

The successful candidate will have an internationally recognized research and publication record in biochemistry. Particular attention will be given to scientists who link biological research with novel chemical or biophysical approaches. Necessary attributes include the ability to provide academic leadership, to benefit from opportunities for collaboration within and beyond the University, to attract and motivate research students and post-doctoral collaborators, and to obtain external funding. Commitment to the highest quality teaching is also required. Teaching will be in French after an appropriate grace period.

An attractive package will be provided. Benefits include an excellent remuneration, an installation grant, 3-4 positions supported by the University budget for pre- and post-doctoral fellows and a technical assistant. Access to state-of-the-art departmental and interdepartmental facilities is available.

Starting date : October 1st, 2001 or as agreed.

Applicants should send a complete curriculum vitae, as well as a description of his or her future research directions, to the

*Dean of the Faculty of Sciences, 30, quai Ernest-Ansermet,
CH-1211 Genève 4, (Switzerland)*

For further information, email: jean.gruenberg@biochem.unige.ch.
(or http://www.unige.ch/sciences/biochimie/position_available/Professor.html)

Closing date for applications : November 30, 2000.
Applications from women are particularly welcome.

MDC MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE BERLIN-BUCH

The department of neuroscience of the Max Delbrück Center for Molecular Medicine in Berlin-Buch invites applications at the level of a

junior group leader (assistant professor)

whose research complements that of the current department. Our department combines basic and clinical neuroscience and is dedicated to advancement of our understanding of the embryonic development of the nervous system and of neurological disorders. Topics of current neurobiological research at the MDC includes:

C. Birchmeier (neuregulin signalling), G. Kempermann (neural stem cells), H. Kettenmann (physiology of glial cells), G. Lewin (regeneration/mechanotransduction), F. Pfrieger (synapse formation/function), F.G. Rathjen (axonal pathfinding/synaptogenesis) T. E. Willnow (LDL receptor signalling).

Further information can be obtained at our homepages (http://www.mdc-berlin.de/html/research_areas.html).

All fields of investigation will be considered, including molecular, cellular, systems, and behavioural. The position is guaranteed for five years. Adequate laboratory space, equipment and funding will be provided, extramural funding, however, is required.

Applicants should submit a curriculum vitae, a statement of research interests, two reprints and addresses of two referees to:

**Prof. H. Kettenmann - Search Committee - MDC
Robert-Rössle-Str. 10, D-13092 Berlin, Germany
email: hketten@mdc-berlin.de**

Applications must be received before October 31, 2000

The MDC is a member of the Hermann von Helmholtz-Association of National Research Centres, supported by the Federal Government of Germany and the Land Berlin.



Solexa is a rapidly growing company exploiting entirely new technology for chemical and biological analysis developed at the University of Cambridge by the company's founders, Dr Shankar Balasubramanian and Dr David Klenerman. The company is based just south of Cambridge, UK. Solexa's technology involves the display of biological samples in ultra high-density arrays of single molecules for massively parallel analysis. Our first commercial application is in the field of genetic analysis where our methods promise improvements in cost and speed by orders of magnitude.

Solexa has permanent positions available for PhD scientists with postdoctoral or preferably industrial experience. A strong interaction with other teams in the company will be expected. We have several positions available in each of the following areas:

Head of Nucleotide Chemistry & Polymerase Enzymology

We are seeking a senior scientist to lead teams of post-doctoral researchers developing nucleotide chemistry and polymerase enzymology for genetic analysis and in particular fluorescence sequencing. Experience in the chemistry and biology of DNA polymerases and deoxynucleotide triphosphates is essential and experience in the development or use of modified substrates or engineered polymerases would be desirable. A track record of managing a team of PhD scientists in an industrial context and excellent communication and presentation skills are all essential.

Surface Attachment of Biomolecules

These positions will involve developing new chemical methods for the preparation of immobilised biomolecule arrays. A background in the attachment of biomolecules to surfaces for interrogation is required. Experience with DNA attachment and silica surfaces would be desirable and knowledge of surface characterisation methods would also be beneficial.

Nucleotide Chemistry

Chemists are required for the synthesis of deoxynucleotide triphosphates (dNTPs) and unnatural dNTPs as substrates for DNA polymerases. Experience in dNTP synthesis and purification is essential and any experience in the preparation of unnatural or labelled dNTPs would be desirable.

DNA Polymerase Enzymology

Enzymologists are being sought to develop novel sequencing chemistry. Knowledge of DNA polymerases, including experience in the purifying and performing kinetic assays of DNA polymerases is essential. An appreciation of unnatural substrates or engineered polymerases is also required and any experience of either would be desirable.

Solexa offers a competitive remuneration package, including a share option scheme, depending on experience.

To take advantage of this unique opportunity to join Solexa Limited, please send a CV to:

Lorna Fairbairn,
Human Resources,
49-53 Regent Street,
Cambridge CB2 1AB

Tel +44 (0) 1223 460626
Fax +44 (0)1223 462114

Email: Solexa@hrj-cam.co.uk
Online: www.solexa.co.uk

POSITIONS OPEN

POSTDOCTORAL POSITION AT EMORY Intracellular Signaling

NIH-funded Postdoctoral position available to study the intracellular signaling initiated by the angiotensin II receptor (AT1), a seven transmembrane receptor. Angiotensin II stimulates several different signaling pathways via protein tyrosine phosphorylation (*Nature* 375:247-250, 1995; *JBC* 271:10329-10333, 1996). This project is to understand how a seven transmembrane receptor leads to the activation of the Jak-STAT pathway in response to angiotensin II. In particular, ligand-mediated STAT nuclear translocation is an area of active study. The project will include technical analysis using protein biochemistry and molecular biology. The applicant should have a Ph.D. or M.D. with experience in molecular biology or intracellular signaling. Applicants will be interviewed at Emory. Reply by mail (not e-mail) to:

Ken Bernstein, M.D.
WMB 7107A, Department of Pathology
Emory University
Atlanta, GA 30322

Emory is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN DIABETES

Funded positions available immediately to investigate novel stem cell and gene therapy approaches to treat diabetes. The University of Alberta has a strong and well-funded research program in this area. Candidates must have a recent Ph.D.; relevant publications; and preferably skills in tissue culture, molecular biology, viral vectors, and small animal handling. Send curriculum vitae with names of three references by e-mail to: **Timothy J. Kieffer (e-mail: tim.kieffer@ualberta.ca)** or **Gregory S. Korbitt (e-mail: korbitt@ualberta.ca)**.

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

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.

An NIH-funded **POSTDOCTORAL POSITION** is available immediately through the Wisconsin Allergy Research Training Program at the University of Wisconsin-Madison. Research opportunities focus on asthma and include virus-induced asthma and wheezing, eosinophil activation/locomotion, and characterization of alternaria allergens. Faculty include **Robert Bush, M.D.**, **William Busse, M.D.**, **James Gern, M.D.**, and **Robert Lemanske Jr., M.D.** Applicants must be either citizens, noncitizen nationals, or permanent residents of the U.S.A.; have a Ph.D. degree in the biological sciences; and have experience with basic molecular and cell biology techniques. Send curriculum vitae, a statement of research interests, and three references to: **James Gern, M.D., Wisconsin Institute for Respiratory Research, K4/918 University of Wisconsin Hospital, Madison, WI 53792-4108. E-mail: gern@medicine.wisc.edu.** *University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.*

Two **POSTDOCTORAL POSITIONS** are available to study the molecular genetics in atherosclerosis using microarray technology and to develop a potential genetic therapy for the management of lipid disorder. Experience in molecular biology is required. Send curriculum vitae and names of three references to: **Dr. Ba-Bie Teng, Research Center for Human Genetics, Institute for Molecular Medicine, University of Texas-Houston, 2121 West Holcombe Boulevard, Houston, TX 77030. Telephone: 713-500-2443; FAX: 713-500-2424; e-mail: babie.teng@uth.tmc.edu.** *The University of Texas is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

POSTDOCTORAL POSITION

A Postdoctoral position is available in the Lineberger Comprehensive Cancer Center in the Department of Microbiology and Immunology at the University of North Carolina-Chapel Hill. Research involves the study of Kaposi's sarcoma-associated herpes virus (KSHV/HHV-8) and its simian homolog, rhesus monkey rhadinovirus (RRV). Several interesting projects that examine questions in molecular virology are available. These encompass the areas of signal transduction, transcription, and the construction of recombinant herpes viruses. These projects provide excellent training for Postdoctoral Scientists who have received a Ph.D. or M.D. and plan a career in infectious disease research.

For more information on the research environment at the Lineberger Comprehensive Cancer Center, Department of Microbiology and Immunology, University of North Carolina-Chapel Hill, and the Research Triangle area, please look up the following websites: <http://cancer.med.unc.edu/training/> and <http://www.med.unc.edu/microimm/>.

Please send curriculum vitae and three letters of reference by regular mail or e-mail to: **Dr. B. Damania, Lineberger Comprehensive Cancer Center, University of North Carolina-Chapel Hill, CB 7295, Mason Farm Road, Chapel Hill, NC 27599-7295. E-mail: bdaman@hms.harvard.edu.**

POSTDOCTORAL RESEARCH FELLOWSHIP

A Postdoctoral position is available within the Heritable Disorders Branch (HDB), National Institutes of Child Health and Human Development (NICHD), National Institutes of Health (NIH), to study the gene therapy of dominant genetic bone disorder by hammerhead ribozymes. We have developed a knockin mouse model for nonlethal *osteogenesis imperfecta* that is being used to approach gene therapy by suppression of mutant mRNA. Project involves *in vitro*, *in cellulo*, and murine investigations, including development of transgenic mice expressing ribozymes and expression constructs to increase colocalization and efficiency.

A strong background in molecular biology and experience with murine models is desired. Candidates should have a Ph.D. or M.D. and less than five years of postdoctoral experience. Interested applicants should send curriculum vitae and three references to: **Dr. Joan Marini, Heritable Disorders Branch, NICHD, Building 10, Room 9S241, 10 Center Drive, MSC-1830, Bethesda, MD 20892; FAX: 301-402-0234; e-mail: oidoc@helix.nih.gov.** *NIH is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION LEUKEMIA RESEARCH

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POSTDOCTORAL POSITIONS available immediately to study transcriptional regulatory mechanism of inflammation-responsive genes (*MCB* 18: 7327, 1998; *JBC* 274:4300, 1999). Expertise in molecular biology is required. Apply with curriculum vitae and names of three references to: **Dr. B. K. Ray, Department of Veterinary Pathobiology, University of Missouri, Columbia, MO 65211. FAX: 573-884-5414; e-mail: rayb@missouri.edu.**

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Applicants should post, FAX, or e-mail their curriculum vitae, together with the names of three references, to: **The Director, Institute of Molecular and Cell Biology, an institute affiliated to The National University of Singapore, 30 Medical Drive, Singapore 117609, Republic of Singapore. FAX: Singapore 777-0402; e-mail: mcbtanbl@imcb.nus.edu.sg.**

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SHORT COURSE ON TIME-RESOLVED FLUORESCENCE SPECTROSCOPY. The Center for Fluorescence Spectroscopy at the University of Maryland School of Medicine is offering a short course on "Principles and Applications of Time-Resolved Fluorescence Spectroscopy" in Baltimore, Maryland, March 19-23, 2001. The course will cover basic and advanced topics in fluorometry, including time- and frequency-domain measurements, and Forster energy transfer. Advanced topics include chemical sensing, imaging, fiber optics, infrared fluorometry, two-photon excitation, instrumentation, confocal and multiphoton microscopy, protein fluorescence, DNA technology, high-throughput screening, metal-ligand probes, lanthanides, and immunoassays. Textbook, course materials, lunches, and refreshments will be provided. For further information, a schedule, and fees, please contact: **Ms. Mary Rosenfeld or Professor J. R. Lakowicz** at the CFS, Department of Biochemistry and Molecular Biology, 725 West Lombard Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; e-mail: cfs@cfs.umbi.umd.edu; website: <http://cfs.umbi.umd.edu>.

POSITIONS OPEN

Two NIH-funded **POSTDOCTORAL POSITIONS** are available to study the role of PLA2 and eicosanoids in the regulation of vascular smooth muscle cell growth. Experience in molecular and cellular biology is required. Interested candidates with a Ph.D., M.D., or M.D./Ph.D. degree should send curriculum vitae and names of three references to: Gadiparthi N. Rao, Ph.D., Department of Physiology, Room 426 Nash, The University of Tennessee Health Science Center, 894 Union Avenue, Memphis, TN 38163. E-mail: grao@physiol.utm.edu. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

EUROPEAN OPPORTUNITIES

POSTDOCTORAL POSITION available immediately to study the role of kinases in *Drosophila* behavior based on food searching. The designed testing is a relevant model to study learning and memory. The position is for at least one year. Experience with biochemistry or molecular genetics desired. Send curriculum vitae to: Alain Robichon, Ph.D., CNRS, Centre Européen des Sciences du Goût, 15, rue Hugues Picardet, Dijon 21000, France. FAX: 33 3 80 68 16 01; e-mail: robichon@cesg.cnrs.fr.

GRANTS

EGG SAFETY GRANTS available on yolk membrane stability and temperature profiles during production. Future grants possible on location of *Salmonella enteritidis* (SE) in the egg, food preparation practices, SE destruction during cooking, human disease estimates, microbial load in liquid egg or feed and antibiotic resistance. Contact: Jill A. Snowden, Ph.D., Egg Nutrition Center, 1050 17th Street, N.W., Washington, DC 20036. Telephone: 202-833-8850.

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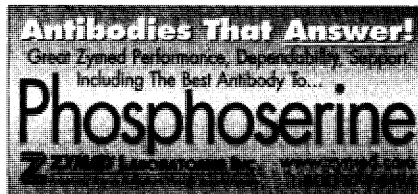
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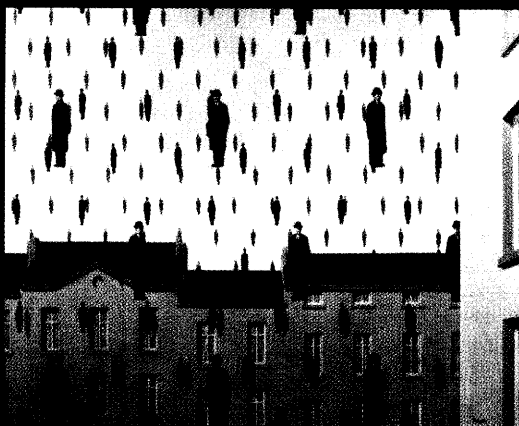
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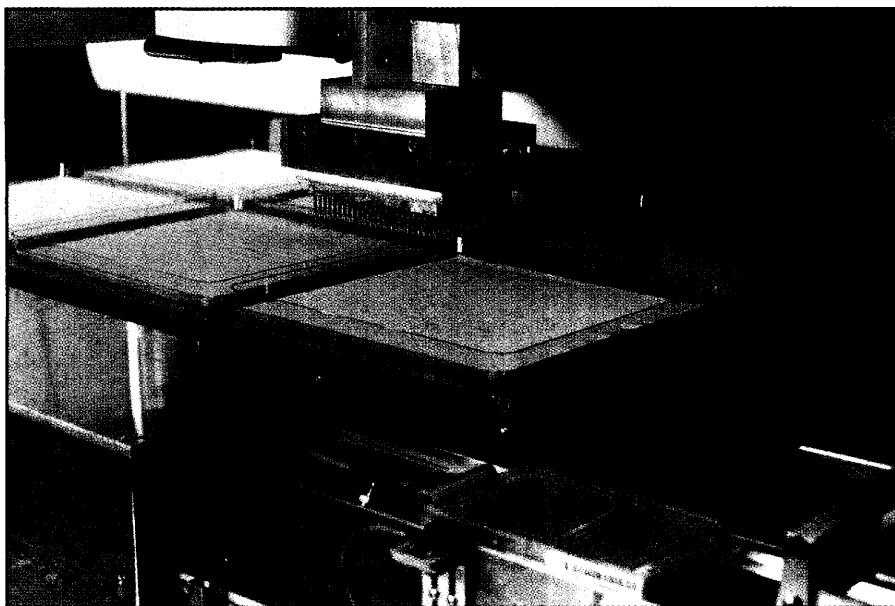
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