

NEW PRODUCTS

MONOCLONAL ANTIBODIES

Kamiya Biomedical

For more information call 206-575-8068 or **circle 142** on the Reader Service Card

A new monoclonal antibody (mAb) directed against single-stranded DNA can be used to detect early and late apoptotic cells by immunohistochemistry. The mAb comes with protocols for detecting apoptotic cells in cell suspensions, various fixed-tissue sections, and flow cytometry.

Synaptophysin, a major membrane protein of neuronal synaptic vesicles, is used as a marker for characterizing neuronal neoplasms and for evaluating cortical epileptogenesis, schizophrenia, amyotrophic lateral sclerosis, and the degree of dementia in Alzheimer's disease. The mAb 5F3 reacts with the 38-kD synaptophysin glycoprotein by protein immunoblotting, immunoprecipitation, and immunocytochemical staining.

InnoGenex

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One of the most common HLA antibodies used in studying human MHC I structure and function, this mAb detects a monomorphic determinant on the HLA-ABC. It can be used in the study of inflammatory disorders, the study of variation of HLA-I expression in disease states, and the characterization of trophoblast in the peripheral circulation during pregnancy.

ANTIBODIES TO CYTOSKELETAL PROTEINS

A line of antibodies to cytoskeletal proteins includes antibodies specific for several cytokinins (MK1, MK5, MK6, MK10, MK14, HK1 fillagrin and loricrin), non-muscle myosins (MHCA and MHCB), tubulins (β III and γ), kinesins (squid kinesin light chain, kinesin II, and SUK-4), kinesin-related proteins, and other motor proteins. This growing family of antibodies offers

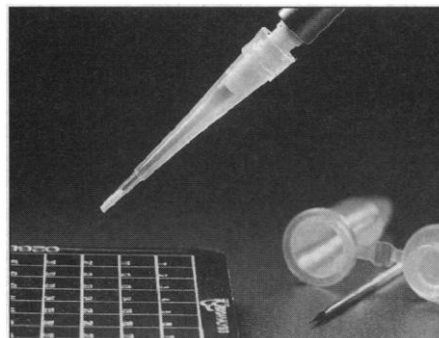
Berkeley Antibody

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tools for studying microtubule dynamics, cell motility, and the scaffolding of the cell as a whole.

SIMPLIFY ANALYSIS OF COMPLEX MASS SPECTRA

With ZipTip pipette tips for sample preparation, users can fractionate complex mixtures of peptides quickly and easily. ZipTip_{C18} is a 10- μ l pipette tip with a 0.6- μ l bed of C18 resin fixed at its end so there is no dead volume. The ZipTip can be placed on a standard single or multi-channel pipettor.



Sample is aspirated and dispensed through the resin to bind and wash peptides or small proteins. A step elution protocol has been developed to fractionate peptides, thereby simplifying analysis.

MULTI-APPLICATION DETECTION KIT

The UniMAK Universal Multi-Application Kit offers the flexibility to conduct a wide variety of molecular and cellular biology tests using one set of core reagents. Kits are available for such diverse protocols as protein immunoblotting, in situ hybridization, enzyme immunoassays, immunohistochemistry, Northern (RNA) blotting, and Southern (DNA) blotting. A single kit can be configured to perform several different applications based on the user's needs. The user simply chooses the desired substrate suited to an application, then selects the kit whose secondary antibody matches the primary antibody or labeled DNA probe. Components are designed to inter-

Millipore

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face seamlessly with one another, permitting the user to select the preferred detection method (colorimetric, chemi-fluorescent, or chemiluminescent) for particular applications.

LITERATURE

Innova 2130 & 2180 Combinatorial Chemistry Shakers is a product sheet on two shakers that can handle high speeds, heavy workloads, and sudden stops with minimal wear or vibration. These heavy-duty shakers are built to withstand the stresses of rapidly agitating reaction blocks and other heavy loads up to 40 pounds. Model 2130 can mix in a 3/4-inch stroke at speeds up to 500 rpm and stop in exactly the same position each time. Once stopped, a robotics device can be used to fill or extract solutions from the reaction block. For high-speed mixings and washings, Model 2180 offers a shorter stroke and extended speed range up to 800 rpm.

Discovery C18 HPLC Columns is a product preview that summarizes specifications and quality control tests for these high-performance liquid chromatography columns designed to meet the requirements of the pharmaceutical industry.

Filtration Devices for Life Sciences and Cell Culture describes products for sterilizing cell culture media and reagents, including syringe filters, medium-volume devices, and capsules.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.

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Pall Gelman Sciences

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Recruitment Advertisement Directory

Women in Science 1999



The following organizations have placed recruitment advertisements in the special advertising supplement beginning on page 1007.

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Science
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Women in Science

a high-profile year ahead

By Michael Woods

How can industry and academe recruit, retain, and promote more female scientists?

A national commission, mandated by the U.S. Congress in 1998, will spend 1999 seeking answers to that perennial question, giving women-in-science issues an unusually high profile. U.S. Rep.

Connie Morella (R-MD) introduced legislation creating the Commission on the Advancement of Women in Science, Engineering, and Technology. Next year, U.S. Congress and President Clinton will have their recommendations on new policies to encourage more science careers for women.

To start off this potential landmark year, we visited with female scientists for a grassroots look at their opportunities and challenges. We spoke with personnel at different career levels at Merck Research Laboratories, Pharmacia & Upjohn, Inc., and NeXstar Pharmaceuticals, Inc. We turned to the Association for Women in Science for the bigger picture.

CATHERINE DIDION, AWIS: Universal Concerns For Women in Science Careers

What are the most compelling issues for women scientists? Catherine J. Didion, executive director of the Association for Women in Science (AWIS), Washington, D.C., got a grassroots response last year, as she prepared to testify before the U.S. House of Representatives committee on science. AWIS is a nonprofit organization established in 1971 to achieve equity and full participation for women in science, mathematics, engineering, and technology. It has over 6,000 members.

Didion polled members at AWIS's 76 chapters: what should she tell Congress, then considering establishment of a national commission to determine why women are underrepresented in science and engineering careers. The bill passed, and the commission will start work later in 1999.

Didion identified three major concerns:

"First, women scientists wanted more effective mentoring systems with adequate reward structures. Mentoring relationships should be formalized, long-term, and rewarded whenever possible. Professional societies, governmental agencies, and other groups can encourage national networking among women



1999

AWIS

Merck Research
Laboratories

Pharmacia &
Upjohn, Inc.

NeXstar
Pharmaceuticals,
Inc.

Growing Excitement



Cereon Genomics' mission is to apply genomics technology to transform agriculture ... making plants harder, naturally disease and pest-resistant, able to grow in some of the most inhospitable conditions. All to improve the quality and quantity of the world's food supply.

In the past few months, we've taken major steps toward achieving that mission by:

- Creating a world class facility
- Implementing a highly advanced sequencing operation
- Acquiring the latest state-of-the-art equipment
- Identifying key projects in genomics, bioinformatics, and robotics
- Bringing together a team of exceptional professionals at all levels

It is with growing excitement that we realize what we have accomplished ... and what is still left to do. That's why we seek more innovators with a focused sense of urgency and a healthy sense of wonder to join us, keep our impressive momentum going, and make the future of genomics technology happen!



SCIENTISTS - MAPPING

Positions available at all levels in physical and genetic mapping for applications in crop improvement. Requirements include an advanced degree and a strong background in genetics and molecular biology. Experience in library construction, mapping, and/or polymorph detection is desirable.

SCIENTISTS - FUNCTIONAL GENOMICS

Put your proven expertise and experience to excellent use in building Cereon's plant and microbial gene identification and function effort for agriculturally relevant microorganisms and plants. Some positions are oriented toward a molecular understanding of gene functions, biochemical pathways and enzymatic mechanisms. Others deal within identifications of quantitative trait loci. All positions require a Ph.D. or equivalent in Genetics, Microbiology, Biochemistry, Plant Biology, or related field. 2 - 3 years of postdoctoral training are essential, as are excellent communications and interpersonal skills, plus the ability to work well as part of an interdisciplinary research team. Plant or microbial experience is desirable.

DEVELOPMENTAL GENETICS

Positions available at all levels to work on understanding and manipulating various aspects of plant reproduction, including meiosis. Requires a strong background in developmental genetics and/or the genetics of meiosis/mitosis. Plant experience desirable.

SOFTWARE DEVELOPERS

You will be involved in the challenging fields of sequence and genomics analysis. Requires at least 3 years of programming experience and proficiency in two or more of the following: C/C++, Java, SQL (Oracle preferred), PERL, and Web development. Familiarity with biology and genetics preferred.

SOFTWARE DEVELOPERS - LAB AUTOMATION

Apply your development skills and expertise to the areas of bioresearch data management, process control, and robotics systems integration. Must have at least 3 years of programming experience and proficiency in two or more of the following: C/C++, Java, SQL (Oracle preferred), PERL, and Web development. Familiarity with biology and/or bioresearch lab processes preferred.

RESEARCH ASSISTANTS/ASSOCIATES

Our advanced genomics research efforts are creating an on-going need for Scientists to play an important discovery role. Right now, we have multiple opportunities in the following areas:

FUNCTIONAL GENOMICS: Focus on either identification of quantitative trait loci or molecular understanding of gene function.

MICROBIAL GENOMICS RA: The Microbial Genomics group is looking for motivated and enthusiastic individuals to take part in developing and applying advanced genomic technologies in fungal systems. The successful candidates should have a good understanding of biology and extensive experience in molecular biology techniques. Experience in filamentous fungal (and/or yeast) biology and genetics is preferred.

LIBRARY CONSTRUCTION: Deal with BAC, PAC, YAC, cDNA library construction and related techniques.

Most positions require a BS/MS, plus 2 - 5 years of experience. Highly motivated recent graduates are also encouraged to apply for select entry-level positions. Important areas of knowledge/experience include: molecular biology, nucleic acid chemistry, genetic mapping, mutant analysis, biochemistry, and computer equipment.

LIBRARY CONSTRUCTION

Several openings exist for BS/MS or Ph.D.-level scientists with extensive, hands-on molecular biology experience and demonstrated competence in one or more of the following: BAC, PAC, YAC, Cosmid, lambda, small insert genomic, or cDNA library construction. A solid background in genetics, biochemistry, or related discipline preferred.

SYSTEMS ENGINEERS (UNIX)

Openings at Senior and Staff levels to be responsible for one or more of the following in our mission-critical, high-availability Solaris environment: daily systems management, volume management, DNS, email, NFS, backup, and upgrades. Additional responsibilities may include helping ensure optimal performance of database servers, maintaining sequence analysis and developer applications, and maintaining genetic sequence databases. Requires BSCS/EE, plus at least one year of PERL/shell programming. 4+ years of UNIX systems administration experience is essential for Senior position, with 2+ years required for Staff positions. Strong interpersonal skills and ability to work as a team member are necessary.

SENIOR DATABASE ADMINISTRATORS (SYBASE & ORACLE)

Proven leaders to be involved with database creation and maintenance, ensuring optimal performance of database servers, and working with business partner personnel to ensure the smooth integration of proprietary database tools into the Cereon environment. Requires BSCS/EE, plus at least 4 years of Oracle or Sybase database administration experience, preferably in a Solaris environment. Experience with modeling tools (e.g., Erwin, PowerDesigner), middleware connectivity, and PERL/shell programming is essential. Strong interpersonal skills and ability to work as a team member are necessary.

DESKTOP SUPPORT ENGINEERS (PC & MAC)

Support either the total PC desktop (desktops, laptops, lab equipment running Win 95/98/NT) or scientific Mac environment. Specifically, you will install and configure hardware/software, manage upgrades, troubleshoot hardware and software problems, and support standard business software (MS Office, email, Web browser). Mac support also includes supporting scientific applications used by our production sequencing and finishing groups. Requires a BS, plus at least 2 - 3 years of technical support. Experience with UNIX (preferably Solaris) and TCP/IP is essential for Mac support positions. Strong interpersonal skills and ability to work as a team member are necessary.

WEBMASTER

Responsible for oversight and management of the Cereon web site, encompassing business, production, and development sites. Specific tasks include creating web-based user interfaces and content display, plus assisting in the development/deployment of applications that use the web as the user interface. Requires BS, 2 - 3 years of HTML coding, and experience with relational databases. Javascript, PERL, CGI, SQL, and UNIX skills are essential. Good project management and team skills are necessary.

Please send your resume, indicating position of interest, to:
Joan Curtice, Cereon Genomics, LLC, 270 Albany Street
Cambridge, MA 02139. Fax: (617) 551-1776.

Immigration assistance furnished. Cereon Genomics is an equal opportunity employer, proudly reflecting the natural diversity of the world around us.

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Transforming Agriculture To Meet The World's Food Needs

PEOPLE REASON PURPOSE

Eli Lilly and Company is a premier leader in the world's pharmaceutical industry. Lilly is an Indianapolis-based global research pharmaceutical company dedicated to enabling people to live longer, healthier, more active lives through innovative and creative pharmaceutical-based health care solutions. Lilly's long-established values begin with People- respect for people worldwide who touch or are touched by the company. Integrity embraces the highest standards and character of Lilly's people and excellence is reflected in the continuous search for innovative techniques to improve the quality of health care solutions provided to the world.

We are seeking BS/MS, PhD, MD and Postdoctoral Fellows with expertise in Biology, Molecular Biology, Molecular Pharmacology, Toxicology, Chemistry (Organic, Analytical), Biochemistry, Bioinformatics, and Cell Biology, Statistics, Clinical Research and Medical Writing. Lilly offers proven drug development technologies in several therapeutic areas including Cardiovascular, Endocrine, Infectious Diseases, Oncology, and Neuroscience. Within these research programs, Lilly places special emphasis on addressing and meeting the health needs of women through our Women's Health Initiative.

BS/MS Mammalian Cell Culture/Fermentation Associate

Successful candidates will have broad experience with mammalian bioreactor processes- batch, fed batch and perfusion processes; expertise and depth in sterile techniques, laboratory cell culture techniques, troubleshooting, and enabling equipment design. Experience in data handling and graphic presentation from bioreactors required. Candidates will work in a team environment building cell culture production and development expertise within Lilly.

BS/MS Microbiologist for EM support

Successful candidates will have at least 5 years experience in pharmaceutical operations (preferably FDA regulated) or the same in the food industry with a thorough understanding of aseptic and sterile operations. Experience in Environmental Monitoring (EM) and knowledge of cGMPs and various regulatory guidelines for EM. Candidates will provide support for EM initiatives involving viable, non-viable and utility monitoring; perform as primary contact with inspection agencies; and will proactively drive and manage all phases of EM projects.



To attract the best and the brightest, we offer competitive salaries and excellent benefits. For more information regarding Eli Lilly and Company please visit our employer profile in Science online. For confidential consideration in joining Lilly's diverse team of scientists working towards visionary pharmaceutical solutions to improve the lives of the world's people, please send your resume to the following:

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NOVARTIS

Novartis Agribusiness Biotechnology Research, Inc.

Creating opportunities...

Some of the most
promising seeds
are the ideas
planted by our
scientists.
Novartis
Agribusiness
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Research, Inc.
provides the
resources that
enable these ideas
to grow.

Innovative. Progressive. Responsive. This best describes our research philosophy at Novartis, a world leader with prominent positions in Seeds, Crop Protection, and Animal Health. Our mission is to make discoveries that enable the creation of novel seeds, new methods of protecting crops, and new animal health products that enhance human life in an environmentally sustainable manner. This is your chance to make a significant contribution to world agriculture in our casual dress, 250 person, state-of-the-art biotechnology facility located in Research Triangle Park, NC.

GRAIN QUALITY & VEGETABLE QUALITY GROUPS

These groups are developing transgenic solutions for improving the composition and quality of major grain crops and vegetables. Efforts are centered on traits that are associated with grain processing characteristics, carbohydrate, protein, and oil quantity and quality, and food/feed nutritional value. The successful candidates will join an interdisciplinary group of highly motivated scientists devoted to maintaining leadership in the area of agricultural biotechnology.

MOLECULAR BIOLOGISTS & BIOCHEMISTS (PROJECT LEADERS)

Candidates for these positions will possess a Ph.D. in molecular biology, biochemistry, or plant biology with 5+ years of relevant experience. Successful candidates will be responsible for the design and implementation of novel strategies to enhance grain composition and vegetable quality consistent with project goals and business objectives. A proven record of project management, setting and achieving technical objectives is required. Candidates must possess an understanding of plant and grain development, biochemistry, physiology, and agronomy, and have in-depth knowledge of relevant scientific literature. Prior research experience in an area of importance to grain traits (ie. seed development, storage protein, starch or oil biosynthesis) is also required. Supervisory responsibilities and international travel are anticipated. **#9902-SM-BRI**

MOLECULAR BIOLOGISTS & BIOCHEMISTS (MS/PhD)

Candidates for these positions should possess a Ph.D. in molecular biology, biochemistry, or related area with up to 3 years of experience, or Masters degree with 5+ years of experience. The candidates should have extensive molecular biology or protein biochemistry/enzymology experience. Responsibilities will include gene cloning, construction of vectors for plant transformation, and transgenic plant analysis. Previous experience with grain traits is important and previous work with transgenic plants is desirable. Strong communication and teamwork skills are desirable for these positions. **#9904-SM-BRI**

BIOCHEMISTRY GROUP

BIOCHEMIST (BS/MS)

In this position, you will be responsible for assisting in the development and optimization of biochemical assays in support of the Herbicide Discovery Project. To qualify, you must have a BS/MS in biochemistry and 2-5 years of hands-on laboratory experience. Background involving HPLC, GC, MS, CD, FPLC, UV-vs and/or fluorescence is necessary, as is expertise in assay development and high-throughput screening. Candidate should be capable of performing follow-through assays and mechanistic studies on hits, as well as proposing new screening strategies and novel assay formats. Familiarity with enzyme kinetics, including software for kinetic analysis, is preferred. Position requires excellent analytical, problem-solving and communication skills. **#9835-SM-BRI**

CHEMICAL GENE SWITCH GROUP

MOLECULAR BIOLOGIST (BS/MS)

This individual will join a newly forming team of scientists on our chemical gene switch project. Chemical gene switch is a mechanism for controlling gene expression by creating chemically responsive promoters. Research will involve gene expression in cell culture as well as whole plant assays.

Position requires an MS in biology, biochemistry or related field with additional 2-5 years laboratory experience or a BS in biology, biochemistry or related field with a minimum of 5 additional years laboratory experience.

Candidates should have an established record of designing and interpreting experiments. Solid skills in vector construction, RNA and DNA isolation and analysis required. Experience in insect, mammalian and/or plant tissue culture, including transient transfection assays, is highly desirable. A background in gene regulation or transcription is useful. **#9882-SM-BRI**

Novartis offers a competitive salary commensurate with qualifications and experience, a comprehensive benefits package, and an environment conducive to professional achievement. Qualified candidates should forward a resume and cover letter to: novartisbiotech@hiresystems.com Indicate the Position# ____-SM-BRI in the subject area. To ensure that your information is uploaded into our HR System, please do not send your resume and cover letter as attachments.

For more information about Novartis visit our website: www.novartis.com For Job Opportunities at Novartis visit: www.careermosaic.com Click on "Employers" and follow the alphabetized links to the Novartis site.

We are an Equal Opportunity Employer M/F/D/V.

i n N o V a T i o n

Millennium is a leading drug discovery and development company employing large-scale genetics, genomics, high-throughput screening and informatics in an integrated science and technology platform. In addition, we have several major pharmaceutical partners spanning numerous disease areas. Our goal is to make breakthrough therapies available faster for a full range of major under-served diseases. Based on the success of a number of recent initiatives, we are expanding our disease focus in the areas of: cancer, pain, cardiovascular disease, hematology and enzymology. Given the challenges still to be faced, and the breakthroughs still to be discovered, there's no better time than now to bring your spirit of innovation to a company that reflects it, respects it, and rewards it.

All Positions Are For Our Cambridge, MA Facilities

Enjoy the rewards of a collaborative environment, the challenge of progressive science, the incentive of stock ownership, opportunities for career growth and a generous compensation package.

Scientists

Scientist - High-Throughput Screening

Responsibilities include assay development, automation and implementation of the high-throughput screens within a group supporting several therapeutic areas, including Inflammation and Metabolic Diseases. Requires a PhD in Biology, Biochemistry, Pharmacology, Immunology or related area. Experience with mammalian cell-based assays using the following technologies required: scintillation proximity/flashplate assays, receptor/ligand interactions, cell signalling, and reporter gene assays. Industrial experience in high-throughput screening preferred.

Molecular/Cellular Biology

Investigate the role of novel secreted proteins for our Biotherapeutics subsidiary. Requires at least 4 years of academic or industry postdoctoral experience and a background in the regulation of cellular proliferation and differentiation including: growth factors and/or cytokines, signal transduction pathways, intercellular communication, and the development and implementation of new methodologies for understanding gene function.

Gene Expression

Responsible for gene expression technology development for high-throughput protein production. Must have a PhD and several years of industry experience with a demonstrated track record in gene expression efforts. Outstanding skills in molecular and cell biology with demonstrated expertise in DNA vector design, construction and manipulation required.

Sequencing

Research Associate - Finisher

Perform sequencing assembly, editing and polishing tasks on projects ranging from cDNA clones to large genomic clones as well as meet regularly with gene discovery scientists to discuss clone assembly projects. Requires BS/MS in biology (or related discipline), and 2+ years of experience in DNA sequencing, sequence assembly, and sequencing chemistry troubleshooting. Familiarity with sequence analysis tools is essential, as are excellent supervisory, communication, presentation, organizational and team skills.

Research Associate - Sequencing R & D

Work on application development in support of Millennium's evolving sequencing facility. Requires a BA/BS/MS in biology or related field, plus familiarity with ABI sequencing hardware, software and chemistry. Basic molecular biology skills are essential.

Research Assistant - Quality

Responsibilities include calibration of high technology equipment, pre-maintenance and emergency maintenance of laboratory equipment, maintenance scheduling, documentation according to cGMP guidelines and design, development and execution of quality tests for various laboratory equipment. Must have a Bachelor's degree in biotechnology or related field, plus strong troubleshooting skills. Basic electrical and mechanical skills, computer skills required - Windows 95, Windows NT, OS8, Excel, Word 6.0, technical writing skills and general sequencing and laboratory techniques.

Senior Technician/Special Projects Coordinator - Clone Processing

Assume responsibility for several types of Clone Processing projects within the Clone Processing Group with the potential to manage other personnel. Requires a BS/MS in microbiology or similar life science and familiarity with computing/automation environments. Automated fluorescent sequencing knowledge would be a plus. Several years of management experience is desirable.

Business

Patent Counsel

Excellent opportunity for career growth, plus exposure to diverse leading edge technologies and complex emerging patent law. You will advise, identify, and develop patent strategies for multiple new technologies; oversee and manage preparation of patent applications; and provide overall creative approaches, expertise, and counsel. Requires a BS, JD and patent bar; 4 - 8 years of experience in a law firm or corporate biotechnology environment; and an excellent knowledge of science.

Qualified candidates should send resumes in confidence,
using one of the following:

Please be sure to include Source Code SC299 on all submissions. If including cover letter, please place/paste after resume.

- For fastest consideration, visit the "Careers" page of our website at www.mlnm.com and apply on line.
- Via e-mail at millennium@webhire.com. Please reference Source Code on "Subject" line.
- Via toll-free fax at 1-800-370-6925. Please reference Source Code on the fax cover or page 1.
- Via mail: Millennium Pharmaceuticals, Inc., Resume Processing Center, Source Code SC299, PO Box 798, Burlington, MA 01803.
- No agency submissions please.



MILLENNIUM

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THE POWER TO

IMAGINE, CREATE & DISCOVER IS YOURS.

Ph.D. & BS/MS SCIENTISTS

We seek candidates at all levels with research experience in the following disciplines for opportunities at our research facility in Groton, CT.

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- Biochemistry
- Bioinformatics
- Biology
- Cell Biology
- Chemical Engineering
- Clinical Measurements
- Drug Metabolism
- General Pharmacology
- Human Genetics
- Molecular Biology
- Neuroscience
- Pharmacology
- Physiology
- Protein Chemistry
- Psychotherapeutics
- Synthetic/Organic Chemistry (BS/MS only)
- Tissue Culture

We also have opportunities in Research Support functions such as, Computer Science, Finance, Clinical Research and Employee Resources.

Pfizer is proud to offer competitive salaries, exceptional benefits, tremendous opportunities for learning and advancement, and the rewards of living only hours from Boston, Providence and New York City on the beautiful Connecticut seashore. Please send your resume in confidence to:

Pfizer Inc, Job Code #3056, Imaging Services, 235 East 42nd Street 4-42, New York, NY 10017-5755.

Pfizer offers a workplace rich with diversity and potential - an Equal Opportunity Employer.



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Because of you



We invite you to explore opportunities to join our world-class team in the following areas:

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- Cardiovascular/ Metabolic Diseases
- CNS Disorders
- Chemical Sciences
- Clinical Research and Development
- Computer Services
- Drug Safety and Metabolism
- Global Safety Surveillance & Epidemiology
- High Throughput Screening
- Infectious Diseases
- Information Management
- Molecular Genetics
- Oncology Immunoinflammatory
- Pharmaceutical Sciences and Chemical Development
- Regulatory Affairs
- Structural Biology
- Women's Health Care

we're making a world of difference.

Dedicated people and superior technology collaborating toward the ultimate goal of high quality health care. This is science at its best at Wyeth-Ayerst. We are a major division of American Home Products Corporation, a Fortune 100 company, and a global leader in pharmaceutical research and development.

As we approach the future, our skilled and dedicated employees remain our most important asset.

RADNOR, PENNSYLVANIA

Candidates with Ph.D., Pharm.D., M.D., R.N., B.S.N. or B.S./M.S. degrees in the appropriate scientific disciplines are sought to staff key positions at our suburban Philadelphia location in Bioinformatics, Clinical Research, Clinical Development, Clinical Programming, Medical Affairs, Nutrition, Project Management, Computer Services, Research Quality Assurance, Biostatistics and Clinical Data Management, Regulatory Affairs, Discovery Sciences, Global Safety Surveillance & Epidemiology and Women's Health.

CHAZY/ROUSES POINT, NEW YORK

Candidates with B.S./M.S. or Ph.D. degrees in the appropriate scientific discipline (Toxicology, Pathology, Veterinary Medicine and Technology, Chemical Engineering or related disciplines) are sought to staff positions at our Champlain Valley locations in the Drug Safety Division and Chemical development.

PRINCETON, NEW JERSEY

Candidates with B.S./M.S. or Ph.D. in the appropriate scientific discipline (Molecular Biology, Molecular Genetics, Biology, Pharmacology, Biochemistry, Organic Chemistry and Analytical Chemistry) are sought to staff positions in Cardiovascular/Metabolic Diseases, Analytical Chemistry, Central Nervous System, Drug Metabolism, Organic Chemistry, Molecular Genetics, Computer Science and Structural Biology.

PEARL RIVER, NEW YORK

Candidates with B.S./M.S. or Ph.D. in the appropriate scientific discipline (Molecular Biology, Microbiology, Biology, Immunology, Organic Chemistry, Analytical Chemistry and Pharmacokinetics) are sought to staff positions in Analytical Chemistry, Chemical Development, Pharmaceutical Sciences, Infectious Diseases, Oncology/Immunoinflammatory, Natural Products Chemistry, Organic Chemistry and Drug Metabolism.

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scientists. Men, often cast as part of the problem, can be part of the solution. Most successful women scientists have had male mentors who were critical to their success.

"Second, women scientists also saw a need for more support of career flexibility. One shared her concern: 'I am worried that it is not realistic to have children and a career as a research scientist...and retain my sanity.' She noted that her female colleagues often have family responsibilities that conflict with scientific research. One, for example, had to pick up the child by 5:30 p.m. every day, even if she was in the middle of setting up an experiment. The disparity of stress between male and female scientists has been amply documented.

"For dual career couples, it is often difficult to find equivalent positions. One study found that about 62 percent of married women, but only 19 percent of married men, had a spouse with a Doctorate. Also, financial disparities between men's and women's salaries often make the woman's career secondary. Equally important issues, such as child care, elder care, and dual career constraints often are labeled as 'women's issues,' but both men and women must confront them.

"Institutions should support nontraditional career paths and flexible career time lines to enhance women's ability to become leaders. Work environments should support men and women who balance family as well as career responsibilities and eliminate penalties for making such choices. Child care programs and other assistance should be considered.

"Finally, women scientists called for more accountability, with better statistics on the advancement of women in science. Institutions should publish annual reports tracking the recruitment, retention, and promotion of women in science. Professional societies, private foundations, and government agencies should encourage national record keeping by discipline. Many AWIS members echoed the need for more effective enforcement of current federal laws and regulations that impact working men and women. Data can be very powerful and persuasive."

SARAH WAYLAND, NEXSTAR PHARMACEUTICALS, INC.: "There Are A Lot of Opportunities Out There..."

Everyone agrees. More and more women scientists are following "nontraditional" career paths — using the knowledge and discipline garnered in their science training away from the laboratory bench. They are finding interesting, rewarding work in regulatory and clinical affairs, patent law, marketing, consulting, and other fields.

What's the attraction for a laboratory-based female scientist?

"Those careers are definitely a good option for better balancing the conflicting demands of a career and a home," said Sarah Wayland. "They can be especially attractive to scientists without a Ph.D. because there seems to be greater opportunity for advancement."

Wayland used a Master's degree in chemistry from the University of Virginia to land a job at NeXstar Pharmaceuticals, Inc., in Boulder, Colorado. She began four years ago as a research associate in chemistry and then moved into molecular biology. Alternative career paths quickly caught her attention, as she saw other women scientists move into them and prosper.

One attractive side to these careers is what Wayland termed the "higher ceiling" factor. Scientists without a Ph.D. sometimes do move into high-level research positions, Wayland noted. But it is neither common nor easy. In contrast, there seems to be more upward mobility in non-laboratory careers.

Another attraction, Wayland said, are the work hours, which are more defined. "Obviously, lab work is very open-ended," she noted. "If you have an experiment going, you're tied to the lab. You may have to

stay late during the week and come back on the weekends. You can't very well take your lab bench home with you."

Many of the nontraditional career paths, in contrast, do offer the chance to work effectively from home. Employees can finish reports, complete research, telecommute via e-mail, and do other work at home, using flex-time and other programs available to help both female and male employees balance job and home responsibilities.

"Knowing that these jobs exist has a very positive effect," Wayland said. "There are a lot of opportunities out there. Working as a lab technician can be a great starting point. The skills you develop will give you a good foundation to move into other areas if you aren't interested in staying in the lab."

Nonscience skills important for success in the lab become critical for women pursuing many nontraditional careers, Wayland noted. These include good oral and written communication and interpersonal skills.

CHI TU, NEXSTAR PHARMACEUTICALS, INC.: "Work Hard...Make Yourself Visible..."

Chi Tu, a senior scientist at NeXstar Pharmaceuticals, Inc., in Boulder, Colorado, is excited about the many career opportunities for women in the pharmaceutical and biotechnology industries today. Her advice for starting and sustaining a successful career is simple and to the point.

"Hard work," Tu said. "I believe you have to work harder than male scientists to prove your abilities and get recognition. It is very important to make yourself visible so that people recognize your work."



Tu got a Ph.D. in organic chemistry from Iowa State University, and signed on at NeXstar in 1994. With children aged 8 and 2½, she has become adept at balancing the two lives — professional and personal — that so many female scientists share. Tu advises women scientists with families to get as much help with child care and household responsibilities as possible. Day care, nannies, and a cooperative spouse can be the keys to maintaining a productive professional life without stressing out, she said.

Aside from good scientific skills, what does it take for a female scientist to thrive in today's biopharma workplace?

"Women scientists should try to become more confident and make themselves more visible," Tu said. It is a role that some women, especially those just starting a career, may find uncomfortable. One good way to begin is to speak up and make contributions at meetings — both formal gatherings and the informal brainstorming sessions within your own research group. Do it a few times, and your comfort level will soar, Tu said. Volunteering to work on new research projects, employee committees, and other projects is another simple visibility booster, Tu pointed out.

Few other kinds of volunteer work can be of greater benefit than projects aimed at getting elementary and high school girls interested in a career in science.

"Everyone would like to have more women scientists in the biotechnology and pharmaceutical industry," Tu noted. "But I don't see lots of women applying for the jobs. So maybe the problem begins very early in the schooling of girls."

Tu believes that young girls need more contact with female scientists, who come into classrooms and serve as role models and

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*Luann Pandy, Ph.D.,
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RESEARCH OPPORTUNITIES IN TOXICOLOGY

The Chemical Industry Institute of Toxicology (CIIT) is seeking Research Scientists with Ph.D. or D.V.M. degrees to join research programs that are developing scientific information to reduce uncertainties in risk-based decision making. The research programs support the health, environmental, and product integrity activities of the chemical industry. CIIT develops mechanistic information in four areas: Chemical Carcinogenesis, Respiratory Toxicology, Neurotoxicology, and Endocrine/Reproductive and Developmental Toxicology.

The CIIT research program is funded primarily through a partnership with the Chemical Manufacturers Association, which represents 190 leading chemical companies. While the majority of the funds are provided by the partnership, CIIT scientists are also expected to secure supplemental funding from government agencies, trade associations, and individual companies for research aligned with CIIT's mission. Current CIIT doctoral staff members have backgrounds in aerosol science, molecular and cellular biology, veterinary medicine, pharmacology, genetics, toxicology, pathology, biochemistry, chemistry, biomathematics, biostatistics, engineering, and neurotoxicology. The successful candidate will have excellent scientific skills, oral and written communication skills, and a strong commitment to participating as a member of multidisciplinary teams. In addition to establishing a quality research program, CIIT scientists are expected to participate in the mentoring of postdoctoral fellows. Preference will be given to individuals with a demonstrated record of securing research funds and conducting multi-year research projects. The following positions are available:

Director of the Chemical Carcinogenesis Program

The Institute seeks an individual with extensive experience investigating mechanisms of chemical carcinogenesis. The successful applicant should have an international reputation for their contributions to understanding the molecular mechanisms of carcinogenesis and have broad knowledge of the field of cancer biology. A demonstrated record of obtaining competitively awarded research funds and managing multiple investigator, multi-year projects is highly desirable. Strong consideration will be given to individuals who have existing research funding that is transferable. This position will provide leadership for a multi-investigator research program that spans from studies at the molecular and cellular level to whole animal investigations using transgenic and conventional animals onto the use of human material. The major focus is on understanding the mechanisms by which chemicals induce cancer and is supported with chemical industry funding. It is expected that complementary research will be conducted with additional funding secured from other sources. The individual should have well-developed skills for communicating with scientific peers, technical individuals trained in other fields, and industry managers and executives.

Quantitative Biochemical Toxicologist

The Institute seeks an individual with a minimum of 2 years of postdoctoral experience investigating the biochemical toxicity of chemicals with an emphasis on quantitative analyses. Working experience with biochemical analyses, *in vivo* and *in vitro* studies, metabolism and pharmacokinetics is required. Experience in physiologically based pharmacokinetic modeling and human health risk assessment is preferred.

Experimental Pathologist

The Chemical Industry Institute of Toxicology (CIIT) is seeking an Experimental Pathologist to join a multidisciplinary team investigating the mechanisms of chemical carcinogenesis. The position requires a Board-certified (ACVP) veterinary pathologist with specialized research and training and experience in toxicologic pathology or experimental oncology. The successful applicant will be knowledgeable about the conduct of long-term rodent studies and have experience in the application of molecular and cellular pathology techniques. The individual should have well-developed skills for communication with scientific as well as non-technical audiences.

CIIT gives high priority to the communication of research findings in leading peer-reviewed journals, at professional meetings, and to other audiences. A majority of the research staff have adjunct faculty appointments at the three nearby major research universities: University of North Carolina at Chapel Hill, Duke University, and North Carolina State University and regularly interact with graduate students. The Institute has an internationally recognized postdoctoral program with over 180 past participants working in responsible positions around the world. The Research Triangle Park provides an intellectually stimulating environment with numerous opportunities for interactions with scientists at the nearby universities as well as the National Institutes of Environmental Health Science and the U.S. Environmental Protection Agency and other biomedical research organizations. The development of external collaborations is strongly encouraged. CIIT research projects are regularly reviewed by an external Science Advisory Committee of leading scientists for scientific excellence and by member company representatives for programmatic relevance.

CIIT offers an excellent salary and benefits package. Interested candidates should complete an application for employment that can be obtained from CIIT's web site at "ciit.org" or by calling CIIT's Job Line at (919) 558-1401. Please refer to the specific position in which you are interested. Applications and curriculum vitae should be directed to the **HR Manager, 6 Davis Drive, P.O. Box 12137, RTP, NC 27709-2137**. The deadline for applications is March 15, 1999. *CIIT is an Equal Employment Opportunity employer.*

Neurotoxicologist/Behavioral Toxicologist

The Institute seeks an individual with a minimum of 2 years of experience in neurotoxicology or behavioral toxicology to join an emerging program investigating chemical-induced neurotoxicity and to develop an independent research program while contributing to other Institute neurotoxicology research activities. Responsibilities include initiating and developing rodent behavioral studies targeted at the evaluation of industrial chemicals. Working experience with the application of operant techniques, acoustic startle, and other behavioral test methods in adult and developmental neurotoxicology is required. Knowledge of regulatory neurotoxicology is helpful.

Molecular/Cellular Respiratory Toxicologist

The Institute seeks a molecular/cellular toxicologist with a minimum of 5 years of experience in respiratory biology or toxicology to join a multidisciplinary team with research interests in pulmonary pathobiology of particles and fibers, aerosol science, and disposition of inhaled material. Working experience in the conduct and evaluation of both *in vitro* and *in vivo* studies investigating toxicity-induced respiratory disease and/or the effects of xenobiotics on the respiratory system and familiarity with a wide array of current molecular and cellular techniques is required.

Analytical Chemist

A minimum of a Ph.D. and 2 years of experience in coordinating analytical services for analysis of biological samples is required. Working experience and proficiency in GLP (or related compliance areas), mass spectrometry, HPLC, GC, ECD, and related analytical methodology is preferred. Strong management and proven team-building skills are required.

Reproductive and Developmental Toxicologist

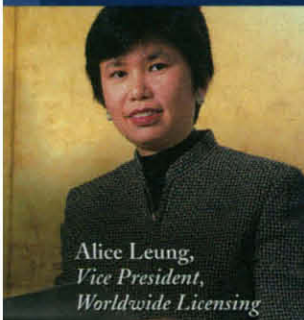
The Institute seeks a reproductive/developmental toxicologist to participate in a major new project investigating the effects of chemicals on male reproductive development. A minimum of 2 years of postdoctoral experience in repro/developmental toxicology is required. Working experience in the conduct and evaluation of *in vivo* research studies of reproductive development in rodents, familiarity with the biological end points of antiandrogen action, and experience with molecular and cellular techniques involving steroid hormone action upon the developing fetus is preferred.



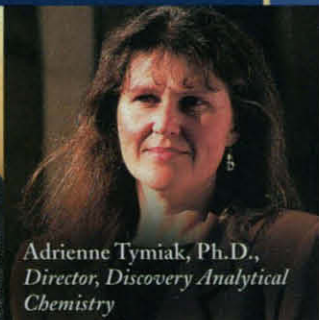
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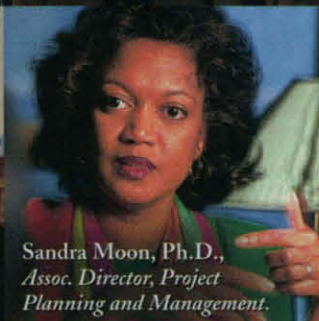


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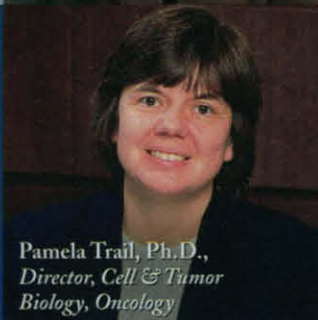
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Building the Bridge to the Future...

Vaccine - We seek scientists to develop improved DNA & protein vaccines using our proprietary DNA shuffling technology. Requires a strong background in molecular biology. Experience in vaccinology, virology and/or immunology a plus. (Job# SCI0212V)

Genome Shuffling - We seek microbiologists seasoned in the growth & genetics of a variety of microorganisms to join our efforts to generate new & improved industrial microorganisms by shuffling entire microbial genomes. The ideal candidates will be comfortable with chemistry, biochemistry, molecular biology and microbiology. (Job# SCI0212GS)

Bioprocess Development - Utilizing directed evolution technologies, scientists & process engineers are needed to develop new catalysts, assays and breakthrough bioprocesses for the manufacture of fine chemicals & pharmaceuticals. Industrial experience and strong background in molecular biology, process organic chemistry, enzymology, or fermentation science are desired. (Job# SCI0212BD)

High Throughput Screening, Sequencing and Laboratory Automation - Individuals with expertise in lab automation, robotics and HTP screen development are needed to continue innovative work on enhancing the depth & breadth of an already robust HTP chem- & bio-screening program. Industrial experience in a variety of analytical chemistry & bioassay formats and experience in state-of-the-art data acquisition and data management are desired. (Job# SCI0212HTSSLA)

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GLOBAL DRUG METABOLISM RESEARCH

Disposition Scientists

Kalamazoo, MI; Stockholm, Sweden; Nerviano, Italy

For the locations above, scientists will perform investigations into the metabolism of new drug compounds and facilitate the complete preclinical biotransformation characterization of drugs in drug discovery and clinical development. Individuals will conduct in vitro metabolism studies by performing incubations with cell and subcellular fractions from hepatic and extrahepatic tissues and with recombinant enzymes. In addition, you will assess the potential induction and inhibition of principal enzymes in humans. The enzymatic basis for the formation of metabolites will be estimated using kinetic analysis. A strong chemistry foundation with contemporary skill base in NMR and/or mass spectral interpretation is essential to perform a variety of spectroscopic, chromatographic and radiochemical analyses. In addition to understanding drug biotransformation, candidates should possess a background in the area of mechanistic toxicology. Individuals must possess a Ph.D. with minimum of 2-3 years postdoctoral experience. When responding to this position, please indicate location of preference. **Position #980646**

Disposition Associate

Kalamazoo, MI

Candidates will participate in conducting complex in vivo and in vitro metabolism studies for investigating drug biotransformation, distribution and elimination, in support of global drug discovery, development and registration. Drugs and their metabolites will be isolated, identified and quantified using a variety of analytical methods. Proficiency in LC-MS, radiochemical techniques and automated robotic systems is desirable, in order to use contemporary chromatographic and spectroscopic methodologies. Position requires a B.S./M.S. degree in chemistry or related field with 2-3 years experience. **Position #980463**

Preclinical Pharmacokinetics Scientist

Kalamazoo, MI

The incumbent will conduct ADME studies to support the selection of drugs from lead candidates and for characterizing the preclinical pharmacokinetics of drugs in development. Candidate will support/collaborate with scientists in other disciplines including discovery, drug safety, drug delivery and clinical pharmacokinetics. The scientist will develop and validate quantitative bioanalytical assays using chromatographic, spectroscopic, biochemical, immunological and other bioanalytical techniques and conduct the pharmacokinetic analysis from the data generated. Excellent communication skills and the ability to work independently and in collaboration with scientists in preparing research projects and scientific publications. All activities will be conducted in compliance with the relevant regulatory guidelines, including GLPs. Requires a Ph.D. degree in pharmacokinetics, analytical chemistry or a related discipline. **Position #980520**

Quantitative LC-MS Associate

Kalamazoo, MI and Nerviano, Italy

Working in a state-of-the-art quantitative bioanalytical chemistry facility, individual will promote the discovery, development and registration of new drugs. The candidate will establish and utilize chromatographic methods in conjunction with modern analytical instrumentation with robotics and LC-MS/MS instrumentation for quantitative analysis of drugs in biological matrices, under GLP regulations to support discovery and/or early drug development. Individual must possess practical experience with sample processing techniques (SPE, liquid/liquid) and have strong skills in HPLC. LC-MS/MS experience and familiarity with automated technologies are highly desirable. Requires a B.S./M.S. degree in chemistry or related discipline. When responding to this position, please indicate location of preference. **Position #980647**

GENOMICS, PROTEOMICS, GENETICS

Scientists should have a B.S. or M.S. with documented research experience in protein science, molecular biology, microbiology, or cell biology.

Protein Biochemist

The ideal candidate will possess a background in modern protein science. Documented research experience on one or more of the following technologies is required: protein purification and characterization, development of enzyme assays, production of recombinant proteins by heterologous expression, or polypeptide display by 2D gel electrophoresis. **Position #980866**

Molecular/Cell Biologist

The ideal candidate will possess a background in modern molecular/cell biology. Documented research experience in one or more of the following technologies is required: genomic database mining, full length cDNA cloning, DNA manipulation, gene expression, culture and transfection of mammalian cells, development of immunoassays, or target protein validation strategies. **Position #980866**

Microbial Molecular Biologist

The ideal candidate will possess a background in bacterial molecular genetics with documented experience in working with gram-positive bacteria and/or other microorganisms. Experience in in vivo gene manipulation (e.g., insertional mutagenesis, gene replacement, and gene mapping), bacterial physiology and intermediate metabolism, and molecular biology skills are highly advantageous. **Position #980866**

PHARMACOLOGY

Ph.D. - Host Defense Mechanisms in Infection

We seek a highly motivated and innovative scientist with a Ph.D. in immunology, pharmacology, or molecular biology and a minimum of 3 years of postdoctoral experience to establish a laboratory to understand host defense mechanisms in infection. Expertise in in vivo models of viral, bacterial, or fungal infectious diseases would be advantageous. A demonstrated record of accomplishments and publications is required. Successful candidate will show individual initiative while working in a multidisciplinary drug discovery team environment. **Position #980585**

B.S./M.S. Electrophysiologist

We seek a research associate with a B.S. or M.S. degree in a biological science and 2-5 years of laboratory experience to perform in vitro brain slice electrophysiology studies. Expertise in electrophysiology is essential. Experience with the patch clamp techniques and in vitro brain slice preparations would be advantageous. **Position #980731**

For confidential consideration, please send resume to: Pharmacia & Upjohn, Position #____, Staffing, 5003-24-0, 7000 Portage Rd., Kalamazoo, MI 49001. FAX: 616-833-9655. Or e-mail resume (no attachments please): recruit@am.pnu.com. We are an equal opportunity employer with a commitment to workplace diversity.



Pharmacia & Upjohn

mentors. Young girls often have misconceptions about careers in science. They often think that medicine or nursing, for instance, are the only science careers for women. Many children regard scientists as unusual people who don't have a real life.

Female role models and mentors can go a long way toward changing those perceptions and allowing more women to take advantage of the range of rewarding careers in the biopharmaceutical industry, Tu added.

POLLY BEERE, MERCK RESEARCH LABORATORIES: Insights on Climbing the Career Ladder

Polly Beere, director of clinical research for Merck Research Laboratories, West Point, Pennsylvania, has more than a decade of experience in both worlds that provide the bulk of science careers — academe and industry. After getting a Ph.D.



and M.D. degree from the University of Chicago, Beere trained in internal medicine and cardiology at Duke University, and signed on as a staff cardiologist. In 1993 she made the transition to industry, joining Merck's clinical research effort in cardiovascular drug development and atherosclerosis.

From that perspective, Beere has seen progress in recruiting, retaining, and promoting female scientists, especially in industry. But women still face challenges in balancing the often-conflicting demands of home and career. The challenges can rise exponentially for women determined to get on the fast track toward positions of greater responsibility. What would Beere recommend for the female scientist who wants to advance through the ranks in industry?

"First, be honest with yourself, and decide if that's what you really want," Beere said. "It can be a real juggling act. If you do, make sure that your spouse is willing to share some of the home responsibilities. It takes the ability to negotiate with one another, set priorities for home and career, and stick with the decisions."

Beere said female scientists sometimes are reluctant to acknowledge ambitions for career advancement to themselves — let alone to coworkers and supervisors. Yet, first and foremost, they must feel comfortable about having ambitions in order to discuss career goals openly and productively. If the ambitions are there, Beere advised, acknowledge them early in your career. Then use commitment, hard work, flexibility, and consistently good performance to climb the career ladder.

Also important is visibility in the company, so that others recognize excellent skills and outstanding performance. "Sometimes you've got to be an advocate for yourself, and sing your own praises," Beere said. "Middle managers may not be fully aware of your contributions to a project. Some may not feel secure enough to single out the contributions of subordinates. When you make an important contribution, make sure others know it."

Female scientists, she said, often are overly concerned about becoming accepted and sometimes opt for being "one of the guys" — rather than expressing personal characteristics that might be gender-associative — especially in workplaces where there are few women. In fact, being a woman can be an asset. Studies indicate that women are socialized at an earlier age than men and as a result become better consensus-builders and communicators, for instance. Traits such as nurturing and sensitivity to others can be

invaluable in the management and development of staff and teamwork, Beere added. Women scientists should develop those assets rather than try to suppress them.

Beere said that an advance to higher job levels is similar to landing research grants. "The easiest way to get a grant is to have a grant," Beere noted. "Once you have that first grant, it becomes easier to get another. I think the same holds true for jobs and rising up the career ladder."

Recognition for past performance opens doors to participation in more important projects, where there is higher visibility and more recognition.

Mentors, role models, networking, and mentoring others all can help along the climb. At each level, Beere advised, stick to your own personal values and principles, complete each job with integrity, and treat other people with decency and respect.

MARY DUPUIS, PHARMACIA & UPJOHN INC.: "I See More Opportunities for Women."

A chemist married to an industrial hygienist. Jobs in several different cities as spouse climbed the career ladder. Two young kids. Just re-entering the biopharma work force after a break to be full-time mom. Juggling the demands of career and home.

Mary Dupuis' story is a familiar one for many female scientists. Nine years ago, Dupuis used her chemistry degree from Siena College in Albany, New York to land a first job at Dow Chemical in Midland, Michigan. Her husband, Mike, worked there in environmental health and safety. A new job for Mike took the Dupuis to Wisconsin, and then back to Michigan. Last December, Mary returned to her chemistry career as a quality assurance professional at Pharmacia & Upjohn, Inc. in Kalamazoo.

"There are a lot more women in the science workplace today than there were nine years ago," Dupuis noted. "I see more opportunities for women. I think a lot has improved. More upper-management positions are now available, and qualified women are moving up."

Dupuis has learned a lot about balancing the demands of career and family over the years. A big part of the secret, she says, is having a supportive spouse. "You really have to set a lot of family priorities, and balance those with personal and career goals. That's one of the keys, really. Try to maintain a balance in each part of your life — in what you're trying to accomplish in your career and in expectations for your family." Budgeting and managing your time is critical, she noted, especially when a spouse travels frequently. Her suggestion: decide what's important in your life, and needs to be done, and what's secondary, and can wait for later.

Also important, she said, is finding a supportive work environment like the one that welcomes female scientists at Pharmacia & Upjohn. Before taking a job, check on the company's reputation in terms of female scientist-friendliness. Check on policies regarding flex-time, part-time work, and personal leave. World Wide Web pages are one good source of information, as are human resources departments. One of the best, according to Dupuis: other women scientists who know the company.

That's just one area where networking can be especially important to female scientists, Dupuis said. "Mentors certainly are valuable," she explained. "But a network adds an extra dimension. It gives you a wide variety of advice, opinions, and information. I've kept in touch with friends and coworkers from other companies. Some of them have moved on, too. After a while, your network grows before you even realize it." ■

Merck Research Laboratories in Rahway, New Jersey, a world leader in creative and innovative Biological and Pharmaceutical Research to produce novel medicines, is recruiting a limited number of excellent scientists with significant leadership potential. Although we are seeking scientists representing all major biological disciplines, at this time we are particularly interested in candidates with an outstanding background in animal physiology and pharmacology.

SENIOR BIOLOGISTS

Scientists in Pharmacology, Immunology, Biochemistry, Endocrinology, and Natural Products Research work together with one of the world's strongest Medicinal Chemistry programs in a wide range of therapeutic areas. These include obesity, diabetes, atherosclerosis, arthritis, asthma, allograft rejection, infectious diseases of man and animals, and neurodegenerative disorders, among many others. Drug discovery programs at Merck employ the full spectrum of techniques used in the biomolecular sciences, including molecular genetics, electrophysiology, cell biology and biochemistry, allied with animal pharmacology. The record of drug discovery achievements and scientific publications produced by Merck Research Laboratories amply demonstrates the breadth and quality of our research endeavors. A listing of scientific publications for 1996 can be found at our Web site at **www.merck.com/scipubs**, or write to the address below.

Successful applicants may be drawn from any discipline, but must have a minimum of two years of postdoctoral

experience, a superlative record of accomplishment in research demonstrated by a strong publication record, and excellent communication skills. We are looking for candidates that share our core research values in the development of innovative medicines for the treatment of disease. Women and minorities are encouraged to apply.

Merck Research Laboratories is located approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. Applicants should send their CV (including names and addresses for three potential references) and a Statement of Research interest to **Merck & Co., Inc., P.O. Box 2000, AD #82, RY80-A3, Rahway, New Jersey 07065**, or by e-mail to **mary_ann_ohalloran@merck.com**. Merck Research Laboratories is an equal opportunity employer.



MERCK
Research Laboratories



THE J. DAVID GLADSTONE INSTITUTES
University of California, San Francisco
San Francisco General Hospital

POSTDOCTORAL FELLOWSHIP

Position available in the laboratory of Robert W. Mahley M.D., Ph.D. Study the cellular and molecular biology of lipoprotein metabolism. Candidate must have expertise in molecular/transgenic animals. M.D. or Ph.D. with at least two years of postgraduate experience is recommended. Job #C99-009.

POSTDOCTORAL FELLOWSHIP

Available in the laboratory of Robert W. Mahley M.D., Ph.D. Investigate the isoform-specific effects of apolipoprotein E on the central nervous system. Candidate should possess a Ph.D. or M.D., and have a strong background in molecular or cellular biology. Job #C99-002.

Please send CV and list of references, indicating the appropriate job number, to: The J. David Gladstone Institutes, P.O. Box 419100, San Francisco, CA 94141; or
Fax to: (415) 431-4039; Email: hr@gladstone.ucsf.edu
Website: <http://gladstone.ucsf.edu>

Equal Opportunity/Affirmative Action Employer



The Bios Group is a rapidly growing software/consulting company applying results of research in complexity and complex adaptive systems (CAS) to solve business problems. Located in Santa Fe, New Mexico, we are looking for enthusiastic self-starters who thrive in a fast-paced environment. Bios is hiring individuals with backgrounds in CAS, physics, mathematics, biology, or chemistry who possess outstanding simulation and analysis skills. At Bios, **Senior Scientists** interact with clients to define problems and work with **Scientists** and **Software Engineers** to implement solutions. We have an ongoing need to fill all three positions. Bios offers competitive salary and benefits as well as participation in our financial growth. Please forward résumés to:

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Santa Fe, NM 87501
Attn: Johanna Hilla
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Providing Innovative Technologies To Help All People Live Healthy Lives

We look beyond research into real life applications. At Becton Dickinson Technologies, we'll give you the power to implement your ideas and realize the applications of your work.

Scientist

Becton Dickinson has recently formed a collaborative research agreement with Ontogeny, Inc., a biotechnology company located in the **Greater Boston area**. We now seek a research professional who will be based at Ontogeny and will play a key role in augmenting a scientific effort already in place within that biotechnology company. The focus of the research will be on applications of developmental biology; and the research team will specifically investigate the molecular and cellular mechanisms that control organ development.

Candidates should be trained in research at the MS/PhD level. Fields likely to provide adequate preparation are Immunology, Cell Biology, Molecular Biology, or Biochemistry. In addition, the successful candidate will have considerable expertise in flow cytometry. They will be responsible for conducting experiments in cell sorting, cell analysis and molecular interactions. A background in developing cell-based assays, and knowledge of developmental biology and molecular techniques will be particularly useful. Research experience in cellular physiology is required, and an understanding of endocrinology would be especially prized.

We provide competitive salaries and comprehensive benefits. Please forward your resume to: **Becton Dickinson Technologies, 21 Davis Dr., P.O. Box 12016, Research Triangle Park, NC 27709; or e-mail to BDRChr@bdr.bd.com**
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MAYO CLINIC

A POSTDOCTORAL POSITION (NIH-funded) is available immediately to study mechanisms of normal and malignant human B lymphocyte proliferation and differentiation. Projects include molecular basis of cytokine responsiveness and gene expression profiling of normal B vs. malignant B lymphocytes. Applicants must have a recent Ph.D. degree, and research experience in cellular immunology, molecular biology, and/or signal transduction is highly desirable. A highly competitive salary with full benefits is available to motivated candidates. Send a letter of application, curriculum vitae and names of three references to:

D. F. Jelinek, Ph.D.
Dept. of Immunology
Guggenheim 420
Mayo Clinic
200 First St. SW
Rochester, MN 55905
e-mail: jelinek.diane@mayo.edu

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

GRANTS FOR INTERNATIONAL JOINT RESEARCH IN THE AREAS OF MATERIALS, ENERGY, GLOBAL ENVIRONMENT AND INTERNATIONAL STANDARD DEVELOPMENT

The New Energy and Industrial Technology Development Organization (NEDO), a Japanese governmental implementing agency supervised by the Ministry of International Trade and Industry (MITI) of Japan, provides funding for collaborative research through its International Joint Research Program.

This program aims to contribute to the enhancement of the international level of industrial technology as well as to the advancement of international exchange by supporting international joint research teams which conduct superior research.

In addition to supporting international joint research teams which conduct original and innovative basic research in the materials area, international joint research teams which conduct research in the energy, global environment and international standard development areas will be provided with grants in FY1999.

The international standard development area is being newly established in order to contribute to international standardization.

The research in the global environment area will be conducted jointly with the Research Institute of Innovative Technology for the Earth (RITE).

Research Grants will be provided to "International Joint Research Teams" which fulfill the following main requirements:

1. Each team, in principle, must be composed of four or more researchers;
2. Each team must consist of researchers of two or more different nationalities;
3. The research organizations where the team members' major activities take place must be located in two or more countries;
4. Each team must appoint a research coordinator and an accounting coordinator. The accounting coordinator shall be responsible for accounting matters and function as the liaison between the team and NEDO. The accounting coordinator's organization and research location must be located in Japan, and he/she must be able to communicate with NEDO in the Japanese language about all accounting matters. The research coordinator can also hold the post of accounting coordinator.

Research Area	Field of Research	Amount of Each Grant in FY 1999	Number of Themes to be Adopted	Recipient of Applications
Materials	Basic Research concerning the investigation, elucidation and practical use of materials which will result in the creation of new industries.	about 24,000,000 yen	3	NEDO (Note a.)
Energy	(Related to Power Generation) Practical Research on electric power generation technologies using oil-alternative energy, on load leveling technologies and on global environment conservation related to these technologies.	about 30,000,000 yen	4	
	(Efficient Use) Practical research on technologies concerning the rationalization of energy use, such as saving energy (excluding electric power generation technologies).	about 30,000,000 yen	1	
International Standard Development	Practical research aiming at establishment of international standards to contribute to industrial technology.	about 20,000,000 yen	2	RITE (Note b.)
Global Environment	(Practice research) Practical research concerning the production, generation and use of oil-alternative energy (excluding electric power generation technologies) which contributes to conservation and improvement of the global environment.	about 30,000,000 yen	4	

Basic Research in the global environment area will not be provided with grants in 1999.

The application period is from January 18th, 1999, to March 15th, 1999.

No applications will be accepted after March 15th.

Contact for Application forms Request:

Note a. Materials, Energy and International Standard Development area

**Industrial Technology Department
New Energy and Industrial Technology Development
Organization (NEDO)**

Address: P.O. Box 1151, 29F, Sunshine 60 Bldg.
3-1-1 Higashi-Ikebukuro, Toshima-ku,
Tokyo, 170-6028 Japan

Phone No: 81-3-3987-9357

Telefax No: 81-3-5952-0082

E-mail: nedogrant@nedo.go.jp

Homepage: <http://www.nedo.go.jp>

Note b. Global Environment area

**Research Proposals Reception Section,
Research Planning Department
Research Institute of Innovative Technology for the
Earth (RITE)**

Address: 9-2 Kizugawadai Kizu-cho Soraku-gun,
Kyoto, 619-0225 Japan

Phone: 81-774-75-2302

Telefax No: 81-774-75-2314

E-mail: proposal@rite.or.jp

Homepage: <http://www.rite.or.jp>

Please note that the amount of each grant and the number of themes to be adopted may change, and that this grant program is subject to government budget approval.

A research team may submit an application a maximum of two times for a grant on the same subject.

Note: If there are any discrepancies in a submitted application, for example, the applicant did not follow the Application Guidebook or a difference in the research contents from the proposed research area, the application will be considered invalid.

The Many Faces of

Research

St. Jude Children's Research Hospital, located in Memphis, Tennessee, is one of the world's premier research centers for research and treatment of catastrophic diseases in children, primarily pediatric cancers. St. Jude is a learning environment offering professional growth and diversity for the research technologist and postdoctoral fellow where biomedical education extends beyond the laboratory and clinical experience. Workshops, seminars and lectures are regularly presented by both the St. Jude faculty and distinguished visiting investigators. Our non-faculty research staff career ladder provides several levels of promotion and financial compensation for talented and motivated technologists to advance in their field. Experienced technologists may assist the principal investigator by performing research experiments, developing new procedures, participating in the publication of research results, managing laboratory operations and training laboratory personnel. Opportunities are available in a wide variety of programs.

For additional information, please refer to our website:
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Candidates may also call our Job Hotline at:
800-545-6292

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St. Jude Children's Research Hospital
Human Resources Dept. SC212
332 N. Lauderdale, Memphis, TN 38105
Fax: 901-495-3123
E-mail: human.resources@stjude.org

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Photos courtesy of St. Jude Biomedical Communications Dept.



Vice President for Administration, Treasurer and Controller

Associated Universities, Inc. (AUI) and its Board of Trustees seek nominations for, and expressions of interest in, the position of Vice President for Administration, Treasurer and Controller of the Corporation. AUI, a not-for-profit corporation based in Washington, DC, currently manages the National Radio Astronomy Observatory (NRAO), under a cooperative agreement with the National Science Foundation. With an annual budget of approximately \$32M and about 400 FTEs, NRAO operates facilities in Arizona, New Mexico and West Virginia that serve radio astronomers throughout the nation and the world. Design and development is underway for a future Millimeter Array, an international project, to be built in northern Chile.

The Vice President for Administration will work closely with the President and Board of Trustees to formulate and implement the contractual, fiscal, personnel, insurance and other administrative policies of the Corporation and serves as the liaison with AUI's legal and administrative consultants and contracts and program officers at government agencies. A graduate degree in management or public administration (or equivalent) is preferred. Experience in the federal government or with a research university is desirable.

Nominations or expressions of interest along with resumes and supporting materials should be sent to **Martha P. Haynes, Interim President, Associated Universities, Inc., 1400 16th Street NW, Suite 730, Washington, DC 20036**. Application screening will begin 22 February 1999 and will continue until such time as the position is filled. Associated Universities, Inc. is an Equal Opportunity Employer and encourages applications from women and minorities.

NEUROMetrix

www.neurometrix.com

NeuroMetrix is a visionary new company that is combining advances in neuroscience and engineering to create novel tools for the diagnosis of neuromuscular disorders. The result will be better patient management through an entirely new class of highly informative diagnostic tools.

The Company has several openings for innovative and experienced biomedical engineers and or neuro-physiologists. Responsibilities include development and analysis of next generation neurophysiological signal processing techniques and approaches, critical analysis of primary and clinical data and basic research in neuroengineering. This position requires outstanding quantitative skills with a strong background in physiology and electrical engineering. The ideal candidate will have a Ph.D., a M.D., or both with four or more years of post-doctoral or industry experience.

NeuroMetrix is located in Cambridge, Massachusetts. The Company offers a competitive compensation and benefits package that includes stock options.

Please email curriculum vitae to gozani@neurometrix.com or send to Shai Gozani, M.D, Ph.D., CEO, NeuroMetrix, One Memorial Drive, Cambridge, MA, 02142.

PENNSTATE



POSTDOCTORAL POSITION WITH TECHNICIAN CELL CYCLE REGULATION

A Postdoctoral position is available to study cell cycle regulation in the laboratory of Stephen A. Osmani, Ph.D. (see EMBO J. (1998) 17, 3990-4003; J. Cell Biol. (1998) 141, 1575-1587; Mol. Biol. Cell (1998) 11, 3019-30). The successful candidate will have the support of a dedicated technician. Experience in genetics, molecular biology or biochemistry a plus but a strong publication record is most important.

The Weis Center for Research in Danville, PA is part of the Penn State College of Medicine, and provides modern research facilities. The center is located on the campus of Penn State Geisinger Health System in Danville, PA. This is a pleasant semi-rural living environment with convenient access to the major metropolitan areas of New York and Baltimore.

Please send CV, copies of publications and names of three references to: **Mrs. Barbara A. Brown, Administrative Assistant, Henry Hood Research Program (SAO), Pos #: S-4348, Sigfried and Janet Weis Center for Research, 100 North Academy Avenue, Danville, PA 17822-2601**. Resumes accepted until position is filled.

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



International Aspirin® Award 1999

Young Researchers' Aspirin® Award

The Young Researchers' Aspirin® Award's objective is to encourage scientific research into the mechanism of action and clinical use of acetylsalicylic acid, the active ingredient of Aspirin®. Scientists who have contributed to the knowledge of Aspirin® through original independent scientific research in the field of theoretical (experimental) and/or clinical medicine are invited to compete for the Award. The results of their work should have a direct effect on the knowledge or use of Aspirin® and be based on a peer-reviewed publication, accepted and/or published. The publication should not be older than two years. The age limit of the Young Researchers' Aspirin® Award in the year of candidature is 40.

The Young Researchers' Aspirin® Award's value is DM 20,000.

Entries will be judged by an international scientific committee representing basic and clinical research.

Young researchers are invited to order the complete application documents at the following address:

International Aspirin® Award
c/o Bayer AG
BG Consumer Care
Integrated Communications
(Code-Nr.: SCI)
Building C 151
D-51368 Leverkusen/Germany
Fax: ++49-214-30-29554

Deadline for submission is April 30th, 1999
(Date of receipt of documents by Bayer AG)



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Associate/Staff Scientist Chemical Enzymology

This position requires a minimum of a BS or MS in biochemistry or organic chemistry and at least two years of laboratory experience in enzymology. Candidates must have a demonstrated ability to purify enzymes and determine their steady-state kinetic parameters. Experience with membrane-bound enzymes would be a definite plus. **Code: RF-RS1**

Research/Senior Research Scientist Chemical Enzymology

This position requires a minimum of a PhD in biochemistry, biophysics or organic chemistry and at least two years post-doctoral experience in the mechanistic characterization of membrane-bound enzymes. Candidates must have a solid background in lipid/protein interactions and how they effect enzyme catalysis and inhibition. Experience in the cloning, expression and purification of membrane-bound enzymes would be a definite plus. **Code: RF-RS2**

Our location, near Wilmington, DE, offers an attractive lifestyle with easy access to all the cultural, academic and recreational activities of the Eastern Seaboard. DuPont Pharmaceuticals Company can offer you an excellent compensation and benefits package. To be considered, please forward your resume to: Human Resources-(Code), DuPont Pharmaceuticals Company, E400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer, M/F/D/V. www.dupontpharma.com



Dupont Pharmaceuticals Company



ZymeTx, Inc.

The Viral Disease Management Company

ZymeTx, Inc. is an emerging biotechnology company engaged in the development of unique products for the diagnosis and treatment of viral diseases. We are located in Oklahoma City at the Oklahoma Health Sciences Center. Oklahoma City is characterized by small-town friendliness with all the amenities of our nation's biggest cities and the advantage of the lowest cost-of-living in the nation.

Research Scientist – Enzyme Studies Section

Analytical and creative scientist sought to participate in our applied research program to develop novel enzyme-related viral diagnostics. Must be capable of participating on multi-disciplined project teams and contribute from experience base. Skills include characterization of enzymes, kinetic analysis, enzyme immunochemical and related techniques along with an understanding of practical application of these abilities. Ph.D. in Biochemistry, Chemistry or related field with 2 years experience.

Research Scientist – Synthetic Organic Chemistry Section

Newly developed products in this section will provide the basis for innovative and exciting technologies for viral disease management. Candidate must be capable of participating on multi-disciplined project teams and contributing from experience base. Capability to synthesize large numbers of novel compounds and creatively design new synthesis routes are required. Ph.D. in Chemistry with a minimum 2 years of post-doc experience in carbohydrate chemistry and instrumental analysis. Knowledge of molecular modeling is a plus.

Section Head – Medicinal Chemistry

Creative senior scientist sought to lead and grow our medicinal chemistry section which is primarily responsible for the discovery and structure activity relationships of novel antiviral therapeutic agents. A key position for a candidate with a strong background in modern synthetic chemistry as demonstrated by publication, patent record and ability to work closely with biological scientists. Ph.D. in Organic Chemistry and 6+ years in pharmaceutical research with supervisory experience. Experience in combinatorial synthesis of small-directed libraries and use of computational tools is desirable.

Section Head – Protein Biochemistry

Senior scientist sought to lead and grow our Protein Biochemistry Section which is primarily responsible for the production and functional characterization of targeted enzymes and proteins. A key position for a candidate with a proven record in protein purification, characterization and study of protein-ligand interactions. Ph.D. in Biochemistry or related field and 6+ years of highly productive research. Supervisory experience and comprehensive knowledge of current technologies for the study of proteins, especially enzymes, are required. Preference given to candidates with experience in pharmaceutical research, protein engineering and assay automation.

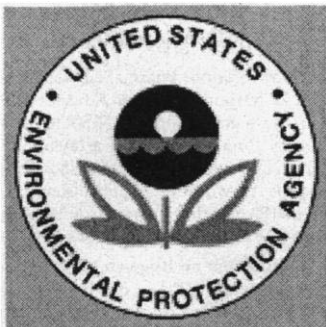
Associate/Director – Applied Research

Excellent opportunity for creative and challenging individual to coordinate, oversee, and perform novel viral diagnostic research. In our technologies, the diagnostic and therapeutic targets are closely matched to provide novel point-of-care rapid diagnostics. This will be a key position working with and in multi-disciplined sections and project teams through a matrix system developing novel diagnostics utilizing new technologies. Additional responsibilities include efforts in assay development, formulation and formatting of new technology assays. Ph.D. in a related field with 5 years industrial experience in diagnostic research and development with relevant supervisory experience. Experience in 510(k) filings, and cGMPs are essential.

Research Scientist – Computer-Assisted Drug Design and Chemical Informatics

Research Scientist sought with broad interests in information technologies as applied to the drug discovery of antiviral therapeutics and viral diagnostics. It will be your responsibility to use the tools of structure-based design and pharmacophore modeling to recommend new chemical entities for synthesis. You will contribute to the implementation and maintenance of our new chemical information system (CIMS). A proven track record in successful application of CADD methods is a must. Excellent programming skills are required. Experience with CIMSs and relational databases, especially ORACLE, highly desirable. Ph.D. in chemical, biological or information sciences and 3+ years relevant experience. Industrial experience preferred.

Human Relations Contact: Tari Hamman, ZymeTx, Inc., 800 Research Parkway, Suite 100, Oklahoma City, OK 73104. Fax: (405) 271-1944. E-mail: hammant@zymetx.com



NATIONAL EXPOSURE RESEARCH LABORATORY POST-DOCTORAL PROGRAM

The National Exposure Research Laboratory (NERL) of the United States Environmental Protection Agency is seeking candidates to fill as many as **24 federal, four-year post-doctoral research positions** during the coming year. NERL conducts research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales including landscape alterations. This research encompasses areas such as environmental monitoring and characterization (physical, chemical, biological, and microbiological); computer modeling of the transport, transformation, and fate of pollutants in multiple media and at multiple scales; human and ecological exposure analysis (including the development of exposure biomarkers and bioindicators); remote sensing applications; and landscape ecology. NERL also field-tests, evaluates, and demonstrates the applications of these findings to environmental problems of national importance to EPA's regulatory and regional offices, other federal agencies, and state, local, and tribal governments. Among NERL's current priorities are exposure of humans to airborne particulate matter and emerging microbial pathogens (bacteria, protozoan parasites, and viruses) in water supplies; exposure of children to pesticides; multi-media, multi-pathway exposure modeling in humans; influence of landscape changes on surface water quality; development of integrated multimedia (atmospheric, terrestrial, and aquatic) transport and fate models; and assessment of the relative risk of exposure to a variety of stresses in regional ecosystems and large watersheds.

Because of the broad range of NERL's research mission, we are seeking candidates from a wide range of disciplinary backgrounds, including environmental science, chemistry, physics, biology, molecular biology, bacteriology, protozoology, virology, ecology, geography, applied mathematics and statistics, human health sciences, meteorology, computer science, and environmental or chemical engineering. The preferred candidate will have earned a Ph.D. in one of these areas within the last five years or will awarded it not later than August 31, 1999.

The NERL post-doctoral positions will be located in a division at either Research Triangle Park, North Carolina; Cincinnati, Ohio; Athens, Georgia; or Las Vegas, Nevada, depending on the particular disciplinary focus, and will be filled beginning **June 1999**. Successful applicants will begin work before October 1, 1999. These excepted service appointments will last for four years and offer a salary range of **\$39,960 – \$62,260**, commensurate with qualifications. The selected candidates will be eligible for a **full benefits package**, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave benefits. **United States citizens are preferred and will be given first consideration for all positions.**

The filing deadline for these post-doctoral positions is **March 31, 1999**. If you are interested, **please mail a curriculum vitae, a letter of recommendation from your senior research advisor or other comparable official, and a letter indicating your research focus, desired position(s) and the geographic NERL location(s) you prefer** (see NERL Internet site below for specific positions) to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), Research Triangle Park, NC 27711, Attn: NERL Post-Doctoral Program. If you are claiming veterans' preference, please include your **DD-214** with your application package.

If you send your application via Federal Express, address it to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), 4201 Building, Suite 105, 79 Alexander Drive, Research Triangle Park, NC 27709, Attn: NERL Post-Doctoral Program. You may also submit your application via facsimile (fax) machine to (919) 541-2186; however, applications faxed from a U.S. government fax machine will not be accepted. Applications sent electronically via the Internet or mailed in U.S. government postage-paid envelopes will also **not** receive consideration. Your application materials must be received in the Human Resources Office or postmarked by **March 31, 1999**. Questions may be directed to Ms. Carr at (800) 433-9633. After all responses are reviewed, candidates will receive written notice of the status of their applications no later than **June 15, 1999**.

For specific job information on for the NERL post-doctoral program, you may access the National Exposure Research Laboratory's Internet site at <http://www.epa.gov/nerl/>

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

SECRETARY SMITHSONIAN INSTITUTION

The Board of Regents of the Smithsonian Institution invites applications and nominations for the position of Secretary of the Institution. The Secretary is the chief executive officer of the Smithsonian who sets the course for the Institution, presides over a broad scope of programs and collections, develops and maintains support to meet present and future needs, and undertakes long-term planning in fulfillment of the Institution's fundamental mission for "the increase and diffusion of knowledge."

As the chief executive officer, the Secretary is responsible for the development and oversight of a wide variety of activities, including research, publishing, exhibition, and educational programs in the sciences, arts, and history. Attendant responsibilities include: supervision of museum, laboratory, and library operations; public relations and fund raising (a major national capital campaign is about to be initiated); support services; and business activities and educational outreach. The Secretary administers an annual operating budget of over \$700 million in Federal appropriations, grants and contracts, and non-appropriated Trust Funds, directing approximately 4,350 Civil Service staff, 2,150 non-Federal employees and 5,000 volunteers. The Secretary presides over 16 museums and galleries, a zoological park, and several major scientific research installations (including an astrophysical observatory, tropical biology station, and estuarine and marine research centers).

The Secretary represents the Institution before the Congress, the Executive Branch, professional societies, educational institutions, foundations and granting organizations, over two million Associate members, and the public.

Candidates should have an advanced degree in a field of study relevant to the Smithsonian. Additionally, candidates should have a record of superior scholarly accomplishment, a facility for written and oral communication, relevant administrative experience in a complex institution, exceptional leadership ability, and demonstrated abilities to work effectively with a governing board as well as public and private sectors.

Nominations and applications, together with curricula vitae, should be sent to the following address and received by March 19, 1999: **James M. Hobbins, Secretary to the Search Committee, Smithsonian Institution, Room SI-215, 1000 Jefferson Drive, SW, Washington, DC 20560-0016.**

All applications and nominations will be treated confidentially. The Smithsonian Institution is an Equal Opportunity/Affirmative Action Employer.

PharmaSeq 3D DNA Microarrays

Be part of a revolution! PharmaSeq was recently awarded a \$2 million three year Advanced Technology Program grant from the NIST to develop revolutionary three-dimensional arrays of DNA molecules on light-powered microtransponders and is expanding its activities. Applications of this powerful platform technology include DNA diagnostics, drug discovery and genomics.

Molecular Biologist or Biochemist

You will be responsible for the design of microtransponder-based assays, involving conjugation of nucleic acids to surfaces, DNA hybridization and fluorescence detection. Experience in nucleic acid hybridization on solid phase or microarray technology is a plus.

Organic Chemist

Your work will involve derivatizing surfaces to facilitate assay development and conjugation of fluorescent dyes to nucleic acids, as well as solid phase synthesis of nucleic acids and combinatorial synthesis.

All candidates must have excellent organizational, computer, record keeping, and verbal/written communication skills. Positions are available at PhD, MS and BS levels. Senior personnel are also invited to apply for management positions. We are a start-up company located in an attractive area in the New Jersey high-tech corridor near Princeton, NJ, within minutes of Princeton University and Rutgers. PharmaSeq offers a competitive compensation package including stock options.

Send your resume in confidence to: Job Code S1, PharmaSeq, Inc., 11 Deer Park Dr., Suite 204, Monmouth Junction, NJ 08852 or fax to (732) 635-0428. or e-mail to mandeck@compuserve.com. Visit our web site: www.pharmaseq.com.

Diversity in the Scientific Workplace

Recruitment Advertising Supplement

Issue Date: 26 March 1999

Space Reservation Deadline: 9 March 1999

Feature your recruitment message in this full-color supplement that acknowledges the benefits of diversity in the scientific workplace.

This issue will be distributed to the attendees of the 5-10 April NOBCCHE meeting, San Diego, CA, and the members of several Minority Scientific Organizations.

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Eli Lilly and Company is devoted to the identification of novel nuclear receptor ligands and targets involved in tissue-specific receptor functions. As a proven leader in the area of selective steroid hormone modulators, our newly launched program in nuclear receptor research seeks to become a major force in the nuclear receptor biology field and represents Lilly's substantial commitment to maintaining excellence in drug therapy development. Lilly's continued success in nuclear receptor research will have significant impacts in women's health, cancer, obesity, as well as endocrine, cardiovascular and central nervous system diseases and disorders.

Research Scientists

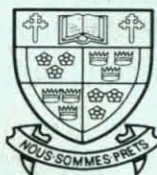
Dr. William Chin, Vice President, Gene Regulation Research and director of the program in nuclear receptor research, is seeking multiple scientists to lead drug discovery groups. Successful candidates will possess outstanding independent research experience with nuclear receptors and other transcription factors with proven expertise in molecular endocrinology, molecular biology, pharmacology, biochemistry, physiology, and/or cell biology. Investigators will assemble and direct scientists in the identification of new drug targets involved in tissue-specific nuclear receptor action and the discovery of novel ligands interacting with these transcription factors. Research in an integrated environment of cross-functional research arenas will contribute to the candidate's success.

Successful candidates should possess a PhD, MD-PhD or MD and 3+ years of postdoctoral research experience in one of the above mentioned fields.

We provide the salary, compensation and advancement opportunities you would expect from an industry leader. For confidential consideration, please send your resume and cover letter indicating position of interest to:

**Eli Lilly and Company
US Recruiting and Staffing
Lilly Corporate Center
DC#1818 ADSCMPH02
Indianapolis, IN 46285**

We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace. For other opportunities at Eli Lilly and Company, please access our Job Bank at: <http://www.lilly.com>



FACULTY POSITION IN APPLIED ECOLOGY/ ECOSYSTEM SCIENCE

The School of Resource and Environmental Management at Simon Fraser University invites applications for a junior-level, tenure-track appointment in applied ecology/ecosystem science. Priority research areas include conservation ecology, terrestrial or aquatic ecosystem dynamics, watershed management, or global change. This person will teach courses in their specialty and topics such as Applied Ecology and Sustainable Environments, Environmental Modelling, or Environmental Risk Assessment.

Simon Fraser University is committed to the principle of equity in employment and offers equal opportunities to qualified applicants. *This advertisement is directed to Canadian citizens and permanent residents. Others are encouraged to apply but are not eligible for appointment until a Canadian search is completed and no appointment made.*

Applicants should refer to the full advertisement on our web site (<http://www.rem.sfu.ca>) before submitting any materials to the **Director, School of Resource and Environmental Management, Simon Fraser University, Burnaby, B.C., CANADA V5A 1S6. TEL: (604)-291-4659; FAX: (604)-291-4968.** The closing date is April 10, 1999.

PROGRAM OFFICER Graduate Science Education Program

The Howard Hughes Medical Institute (HHMI) is a private biomedical research and philanthropic organization. We are seeking a Program Officer to administer our graduate science education program, at our national headquarters in Chevy Chase, MD.

Responsibilities include:

management of fellowship competitions, from announcement through peer review and award; program administration; financial oversight and budget management; policy development and program assessment; electronic and Web-based information systems development; and coordination of program reports, meetings, and publications. See www.hhmi.org/fellowships for descriptions of the programs.

Preferred qualifications include:

M.D. or Ph.D degree in biological sciences, with laboratory research experience in a university or medical school environment; at least 5 years

experience in administration and policy-making relevant to biomedical research and science education; experience with database development and analysis; strong quantitative, analytical, and organizational skills; and experience managing a multimillion dollar budget. Strong interpersonal, written, and verbal communication skills are essential, as are experience in application of office technology and Internet resources.

HHMI offers a competitive salary and excellent benefits package. Please send your resume and salary requirements, to: **Howard Hughes Medical Institute, Attn: CL, Human Resources Department, 4000 Jones Bridge Road, Chevy Chase, MD 20815-6789. EOE**

Visit us at: www.hhmi.org

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At Amersham Pharmacia Biotech we're really excited about the future. As the world's leading research-based biotech supply company, our goal is to become the premier supplier of innovative Products and Systems which enable biotechnology and pharmaceutical companies to discover, develop and produce tomorrow's health enhancing products with greater speed, convenience and safety. And in our open work environment, we encourage all our professionals to take their skills to the extreme. So, if you share our enthusiasm for discovery and improving the quality of life, we can offer you a rewarding future of challenge, opportunity, and excitement.

Due to our extensive growth, the following positions are currently available to support MegaBACE, our automated fluorescent high-throughput 96-array capillary DNA sequencer. Current territories include Boston (1), New Haven/NY/NJ (1), St. Louis (1), Houston (1), San Francisco (2).

For all positions, candidates must have a BS degree in Molecular Biology or Biochemistry; an MS, or PhD in Molecular Biology or Biochemistry is preferred. You must have proficient hands-on expertise and accurate troubleshooting skills in automated fluorescent DNA sequencing as it relates to the needs of the high-throughput customer. An in-depth knowledge of Automated DNA Instrumentation & Chemistry (Slab Gel & Capillary; Dye Primer/Dye Terminator), and Nucleic Acid Purification is essential. Proficiency in Win NT, Win 95 Word Excel, PowerPoint is essential, as are excellent oral/written communication skills and the ability to establish working relationships with customers.

Manager, MegaBACE Field Applications Specialists

In this key role, you will be responsible for establishing and managing a team of MegaBACE Field Application Specialists. Relying on your effective communication skills, you will work closely with customers and liaise with various groups within the Company to ensure customer satisfaction and optimum support from our field specialists. Up to 50% travel required. Demonstrated management skills are essential. Our candidate will also be responsible for providing dedicated field applications support of MegaBACE at key accounts within one of the current territories.

MegaBACE Field Applications Specialists

We have several field positions available for qualified candidates to cover an assigned geographic territory. The team players we seek will work closely with high-throughput sequencing and genotyping customers. Will be responsible for MegaBACE DNA sequencing, Instrumentation & Chemistry (Dye Primer and Dye Terminator) and Nucleic Acid Purification. The ability to troubleshoot and resolve problems is a must. Travel required.

MegaBACE Applications Specialists

The successful candidates will act as key in-house technical consultants on all chemistry issues for MegaBACE. You will work closely with field sales representatives and field applications specialists to prepare and evaluate customer samples for pre-and post-sales support. In addition, you will optimize protocols and reagent formulations for the customer to insure effective integration of MegaBACE into the production high-throughput sequencing or genotyping facility. Knowledge of automated capillary DNA sequencing is considered a plus. Some travel required. **PISCATAWAY, NJ LOCATION.**

These positions offer a very competitive total compensation and benefits package which includes medical, dental, pension & 401(k) plans plus tuition and health club reimbursement.

If you would like to be an important part of our future success forward a scanable resume which must include salary requirements to our recruiting center at: **HR Source-Dept. MegaBACE Attn: Amersham Pharmacia Biotech 303 East 17th Ave., Suite 303, Denver, CO 80203. FAX: 303-861-8147. E-mail: recruit@hrsi.com.**

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Immunologist



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M.D. and/or Ph.D. investigators with demonstrated research accomplishments in the field of immunology, especially as it relates to HIV infection, are invited to apply for a faculty position at the Assistant, Associate, or full Investigator level within the Gladstone Institutes and concurrent faculty appointment at UCSF. The successful candidate will receive salary and research support from the Gladstone Institutes and also will have a unique opportunity to interact with the well-established clinical environment at the San Francisco General Hospital campus of UCSF for HIV and HIV-related research and to participate in the development of a new HIV vaccine program. Please submit a *curriculum vitae* and the names of three references to:

Chair, Search Committee
**Gladstone Institute of Virology
and Immunology**
UCSF, P.O. Box 419100
San Francisco, California 94141-9100.

On the internet: <http://gladstone.ucsf.edu>

The Gladstone Institutes and UCSF are affirmative action/equal opportunity employers. Gladstone and the University undertake affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.

The Biology Department at Bowdoin College

seeks to fill the following:

Two Temporary positions at Assistant Professor or Instructor level; a **Neurobiologist** and an **Immunologist**.

The Neurobiologist would fill a one year position, with teaching duties beginning in the Fall Semester, 1999. Responsibilities include teaching lecture and laboratory courses in comparative physiology and in neurobiology, and an upper level course in some aspect of neuroscience. Candidate will be expected to maintain a research program including undergraduate participation.

Immunologist will teach a one semester course with a laboratory component in Immunology for the Fall Semester, 1999.

Review of applications will begin February 15, 1999. Please send Curriculum Vitae, statement of teaching philosophy and the names of three references to:

**SEARCH COMMITTEE, Department of
Biology, Bowdoin College, 6500 College
Station, Brunswick, ME 04011-8465**

Bowdoin College is committed to equal opportunity through affirmative action. Women and members of minority groups are **ENCOURAGED TO APPLY.**



Children's
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Medical
Center
Cincinnati

Postdoctoral Fellows

Developmental Biology

One position is available to elucidate the role of growth factors and tyrosine kinase receptors in organ development and function, and in carcinogenesis. Current emphasis is in two areas:

- 1) to use innovative state-of-the-art technologies to generate mouse models containing tissue-specific deletions of tyrosine kinase receptors;
- 2) to examine the role of growth factors, receptors and activating mutations in mammalian models of tumor formation and metastasis.

Qualified candidates should have a recent Ph.D. with research experience in molecular biology, biochemistry or cell signaling. Animal experience is also desirable.

Send a curriculum vitae, one page summary of research experience, and names of three references to:

Susan E. Waltz, Ph.D.
Division of Developmental Biology
Children's Hospital Research Foundation
3333 Burnet Avenue, Cincinnati, OH 45229
email: swaltz@chmcc.org

Pulmonary Biology

Position immediately available for a recent Ph.D. graduate to study molecular mechanisms of surfactant protein (SP) gene regulation in lung injury/repair. Current emphasis is in three areas:

- 1) role of nuclear factor I isoforms in regulation of SP-C transcription;
- 2) identification of TNF receptor 1 signaling pathways mediating transcriptional inhibition of SP-C;
- 3) mechanism of Type II cell dysfunction in animal models of bronchopulmonary dysplasia.

Research experience in either molecular biology, protein chemistry, or signal transduction is preferred. Transgenic mouse experience is also desirable.

Send a curriculum vitae, one page summary of research experience, and names of three references to:

Cindy J. Bachurski, Ph.D.
Division of Pulmonary Biology
Children's Hospital Research Foundation
3333 Burnet Avenue, Cincinnati, OH 45229
email: cindy.bachurski@chmcc.org

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



ICAgen is a privately held company engaged in the discovery and development of small molecule drugs that target ion channels. We are looking for talented individuals able to make an impact in the following positions:

DIRECTOR of BIOLOGY (Job Code: RD-001)

ICAgen is seeking an experienced ion channel biologist to assist in the organization and leadership of its biology efforts. This biologist must be an accomplished ion channel scientist having doctoral and postdoctoral experience in electrophysiology and pharmacology. The responsibilities of the position include coordinating the biology group efforts to 1) identify and validate new targets, 2) establish functional screens and assays, and 3) identify lead compounds for drug discovery. The successful candidate will be first a strong scientist, second a team player, and third a team leader. Candidates must have at least 5 years work experience in the pharmaceutical industry or in an academic setting. *This is a unique position for a unique ion channel scientist.*

Senior Molecular Biologist (Job Code: MB-001)

We will immediately hire a Ph.D. molecular biologist with experience in electrophysiology to complement our expanding molecular science team. Successful candidates will have postdoctoral experience and have demonstrated his or her excellence in the cloning and expression of novel genes, and in techniques for analyzing gene expression on both the mRNA and protein level. Top consideration will be given to applicants who have substantial experience in a broad variety of electrophysiological techniques, with backgrounds in either genetics or biochemistry.

ICAgen provides a comprehensive compensation and benefit package including competitive salaries, stock options, medical and dental plans, and a 401(k) retirement plan. For consideration, please submit your resume or CV and salary history directly to ICAgen. Please include the appropriate job code. ICAgen, Inc. is an equal opportunity employer.

Human Resources, ICAgen, Inc., PO Box 14487, Research Triangle Park, NC 27709



PennState Geisinger
Health System

PENNSTATE



DIRECTOR SIGFRIED AND JANET WEIS CENTER FOR RESEARCH HENRY HOOD RESEARCH PROGRAM THE PENNSYLVANIA STATE UNIVERSITY COLLEGE OF MEDICINE PENN STATE GEISINGER HEALTH SYSTEM

An outstanding scientist is sought to serve as Director of the Weis Center for Research and its Henry Hood Research Program. The Weis Center for Research is located on the Danville campus of The Pennsylvania State University College of Medicine and is adjacent to the Geisinger Medical Center, one of the two major teaching hospitals of the Penn State Geisinger Health System. The Center is a modern research facility that includes 65,000 square feet of laboratories, offices, animal facilities, and research conference areas.

The successful candidate will develop and chair the new Department of Molecular Medicine and Human Genetics that is to be established in Penn State's College of Medicine, and is to be based primarily at the Danville campus. The Chair will have the opportunity to recruit at least five new faculty. Substantial resources are available to support this initiative.

We seek candidates with an outstanding record of accomplishments in molecular medicine and/or human genetics who will complement existing strengths in cell and molecular biology at the Weis Center for Research. The Chair of Molecular Medicine and Human Genetics will also have the opportunity to foster collaboration between basic and clinical scientists and to develop an important leadership role in clinical research throughout the Health System.

The successful applicant will have academic credentials fulfilling the criteria of The Pennsylvania State University for appointment at the professorial level. He/She will also occupy the endowed Charles B. Degenstein Chair in Medical Science. Priority will be given to applicants who can relate basic research to clinical problems and therefore, an M.D. or M.D./Ph.D. degree(s) will be a definite asset, but not an absolute requirement.

Interested and qualified individuals are encouraged to send their curriculum vitae to the address below. Review of applications will continue until the position is filled.

Dr. Leonard Jefferson, Chair, Search Committee, Senior Associate Dean for Research and Graduate Studies, The Pennsylvania State University College of Medicine, 500 University Drive (H175), Hershey, PA 17033-8500.

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PHARMACOLOGY Kalamazoo, MI

Ph.D. - Neurodegenerative Disease Models

We seek a highly motivated and innovative scientist with a Ph.D. in pharmacology, molecular biology or related science and a minimum of 3 years of postdoctoral experience to establish a laboratory to investigate the pathophysiology and develop novel therapeutic treatments for Alzheimer's Disease, Parkinson's Disease and other neurodegenerative disorders. Expertise in *in vivo* models and brain slice studies would be advantageous. A demonstrated record of accomplishments and publications is required. Successful candidate will show individual initiative while working in a multidisciplinary drug discovery team environment. **Job Posting #980585**

Ph.D. - Host Defense Mechanisms in Infection

The Pharmacology Unit of Pharmacia & Upjohn is seeking a highly motivated and innovative scientist with a Ph.D. in immunology, pharmacology, or molecular biology and a minimum of 3 years of postdoctoral experience to establish a laboratory to understand host defense mechanisms in infection. Expertise in *in vivo* models of viral, bacterial, or fungal infectious diseases would be advantageous. A demonstrated record of accomplishments and publications is required. Strong communication and problem-solving skills and a drive for results are essential. The successful candidate will show individual initiative while working in a multidisciplinary drug discovery team environment. **Job Posting #980585**

B.S./M.S. Electrophysiologist

The Pharmacology unit is seeking a research associate with a B.S. or M.S. degree in a biological science and 2-5 years of laboratory experience to perform *in vitro* brain slice electrophysiology studies. Expertise in electrophysiology is essential. Experience with the patch clamp techniques and *in vitro* brain slice preparations would be advantageous.

Job Posting #980731

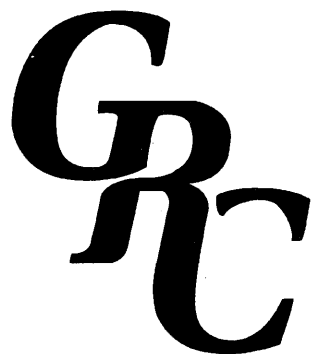
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Pharmacia & Upjohn
Staffing, 5003-24-0
7000 Portage Road
Kalamazoo, MI 49001

Or you may e-mail your resume (no attachments, please) to: recruit@am.pnu.com. We are an equal opportunity employer with a commitment to workplace diversity.



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or grc@grcmail.grc.uri.edu or by fax, 401-783-7644

Full Summer and Fall schedule can be found in *Science*, February 26, 1999

STAFF SCIENTIST POSITION NIMH/DIRP

The National Institute of Mental Health (NIMH) invites applications for a Staff Scientist position (5-year renewable appointment) in the Division of Intramural Research Programs (DIRP). The candidate must have a Ph.D. The primary responsibilities involve setting up, maintaining, and administering a computational infrastructure for data analysis, transfer, and storage related to General Electric 3 Tesla scanner to be used for functional MRI research. Other responsibilities include development of post processing and stimulus delivery software and techniques, and development of real time fMRI capabilities. Experience in fMRI data processing and stimulus delivery programming, and multiplatform network administration is required. Applicants should send a curriculum vitae, and three letters of recommendation by **February 28, 1999**, to the

**Staff Scientist Search Committee
NIH/NIMH/DIRP, Bldg. 10, Rm. 4N-222
9000 Rockville Pike
Bethesda, Maryland 20892
301-496-3501**

THE NATIONAL INSTITUTES OF HEALTH IS AN EQUAL OPPORTUNITY EMPLOYER.

POSTDOCTORAL POSITIONS NIMH/DIRP

The National Institute of Mental Health (NIMH) invites applications for two postdoctoral positions in the Division of Intramural Research Programs (DIRP), Laboratory of Brain and Cognition. The NIMH has established a laboratory for research on fMRI contrast mechanisms, fMRI methods development, and novel applications of fMRI. Fellowships include full salary support plus research and travel expenses for up to five years. Basic facilities include research dedicated to a General Electric 3 Tesla and 1.5 Tesla EPI capable scanner(s) and an extensive computational infrastructure. Technical support will be provided. It is expected that fellows have experience with fMRI methods development and/or contrast mechanism research. Laboratory projects are aimed towards the goal of increasing the temporal resolution, spatial resolution, interpretability, and utility of fMRI. Functional MRI methods, including those involving blood oxygenation contrast (gradient-echo and spin-echo sequences), perfusion contrast (arterial spin-labeling sequences), and blood volume contrast (exogenous contrast agents), will be available. Human and animal research will be performed. Applicants should send a curriculum vitae, and three letters of recommendation by **April 30, 1999**, to:

**Dr. Peter Bandettini
NIH/NIMH/DIRP, Bldg. 10, Rm. 4N-222
9000 Rockville Pike
Bethesda, Maryland 20892
301-496-3501**

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Glaxo Wellcome Inc., one of the world's largest pharmaceutical companies, is a company of people working together for a healthier world. Our breakthrough discoveries are helping people with HIV/AIDS, cancer, heart disease, asthma, migraines, epilepsy and many other diseases. Come share the challenge of leadership as we develop breakthrough medicines for everyday living. We currently have the following openings at our U.S. Corporate Headquarters located in Research Triangle Park, N.C.

RESEARCH INVESTIGATOR Structural Chemistry

Selected individual will work in close collaboration with scientists in the Medicinal Chemistry and Biological Sciences Departments and be responsible for applying computational chemistry techniques and molecular modeling to drug design and discovery. Requires a Ph.D. in Chemistry or Biochemistry with a minimum of 2 years relevant experience in computational chemistry. The ability to apply molecular mechanics, molecular dynamics, protein homology modeling and quantum mechanics to drug design and discovery problems is required, as is familiarity with biochemistry, principles of drug design, x-ray crystallography techniques, QSAR and medicinal chemistry. Candidate must have expertise in the use of the UNIX operating system and programming languages and possess excellent oral/written communication skills. **Please refer to Job ID# 5912 on all resumes.**

ASSISTANT SCIENTIST Structural Chemistry

Serving as a Protein Crystallization Scientist within our Crystallography Group, this individual will be involved in numerous drug discovery projects using structural information in the areas of steroid/hormone nuclear receptors, protein kinases, and protein proteases. The department has excellent research facilities and is part of a consortium of pharmaceutical companies that maintain two beamlines at Argonne National Labs. Requires a BA degree in a Biological Sciences area with a minimum of 3 years of experience in sub-cloning, protein expression and protein purification. Previous Protein Crystallization experience is desirable. **Please refer to Job ID# 6228 on all resumes.**

Glaxo Wellcome offers competitive salaries and a comprehensive benefits package. In addition, our location in Research Triangle Park, NC, the world's largest planned research center, offers access to three major universities, outstanding cultural activities and a superb quality of life. Qualified applicants may apply through our website at www.glaxowellcome.com by referencing Job ID#. Resumes may also be mailed to **Job ID# _____, Glaxo Wellcome Inc., HR-South-E2440B, P.O. Box 13398, RTP, NC 27709.** (No phone calls or agency referrals please). To inquire about other openings, visit our website.

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Molecular Biology - Requires a Ph.D. in molecular biology/immunology or related discipline, and experience with modern molecular biological techniques, including library construction, gene cloning and mutagenesis. (Job# SC414-VW)

PDL offers competitive salaries/benefits & attractive stock options. For a detailed job description and company profile, please visit our website (www.pdl.com).

Please send your resume to:

Protein Design Labs, Inc.,
HR, Attn: (Job# ____),
34801 Campus Dr.,
Fremont, CA 94555
fax: (510) 574-1448
email: hr@pdl.com



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The successful applicant will be part of a company-wide technology integration team responsible for the design, development, implementation, and support of materials processing and data acquisition systems. Duties will include project leadership and hands-on technical support for multiple projects directed toward development of hardware and software systems providing increased throughput, reduced work load, and increased accuracy in analytical biochemistry, genetic transformation, and other Pioneer laboratories as well as providing direction and feedback to management on potential process improvements. The Technology Integration Project Leader should be familiar with biological laboratory processes, and be able to provide technical direction for efforts involving laboratory instrumentation, automation technologies, computer-assisted data acquisition, sensory systems, instrument interfacing, robotic systems, and image analysis.

The position requires 3 to 5 years of practical experience in a biological, and/or engineering area.

For consideration, send your scannable resume and cover letter to: **Employment Services-Ad Code 99034B, 400 Locust St., Suite 700, P.O. Box 14454, Des Moines, IA 50306-3454** or Email: jobs@phibred.com [Email attachments should be sent in MS Word or plain text format.] Visit www.pioneer.com or call our Employment Hotline: 1-800-247-6803 ext. 4000 for more information on scannable resumes and other Employment Opportunities.



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Postdoctoral Scientist



Isis Pharmaceuticals is a dynamic biopharmaceutical company located in North Coastal San Diego County, CA. We have an exceptional opportunity in our Department of Molecular Pharmacology for an individual to apply antisense technologies to functionalize known and unknown molecular targets involved in cytokine signal transduction pathways. Experience with current molecular and cellular biological techniques such as RT-PCR, northern blots, western blots, immunofluorescence, etc. required. Prior experience in the field of cytokine signaling and/or apoptosis preferred. Candidate must have Ph.D. and/or M.D. plus 0-3 years postdoctoral experience.

Isis offers excellent salaries and benefits. Visit our website at www.isip.com. Please send resume to: **Isis Pharmaceuticals, Code 314, 2292 Faraday Ave., Carlsbad, CA 92008.** Principals only. No phone calls please. EOE.

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Please take a few moments and complete the confidential online survey on *Science* Professional Network (SPN). Your input about this portion of the site will help us to continually improve SPN.

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Positions Available

New England Biolabs, a world leader in the production of restriction endonucleases and other related products for the recombinant DNA field, seeks applicants for:

MOLECULAR BIOLOGIST (Phospho-Antibody Development): Minimum requirements include a BS or MS degree in Cell or Molecular Biology. Experience with the use of antibodies and antibody characterization including western blotting, ELISA, immunocytochemistry, and immunoprecipitation techniques is essential. Experience with mammalian tissue culture, transfection, and purification of overexpressed fusion proteins in mammalian cells will also be helpful. Excellent verbal and written communication skills are required. Send resume and three references to: **Dr. Michael Comb.**

POSTDOCTORAL POSITION (Intracellular Signaling Pathways): The Cell Signaling Laboratory has a position available to characterize signaling pathways regulating cell growth and survival. Projects involve biochemical analysis as well as molecular cloning of protein kinases and other signaling molecules using phospho-specific antibodies. Minimum requirements include a Ph.D. degree in Molecular Biology, Biochemistry, or Cell Biology with some experience in the molecular biology of signal transduction and gene regulation. Experience with basic techniques in molecular biology, protein phosphorylation and biochemistry are recommended. Send a resume and three references to: **Dr. Michael Comb.**

POSTDOCTORAL POSITION (*C. elegans*): Position available immediately for a recent Ph.D. to study immunophilins in *Caenorhabditis elegans* and filarial parasites. The research involves the characterization of common genes and identification of potential targets for chemotherapy. Applicants should have a strong background in molecular biology and *C. elegans* genetics. In addition to competitive salary, New England Biolabs offers a very generous fringe benefits package. Attendance at meetings, publication of research results and open communication with others are encouraged. Send a resume and three references to: **Dr. Clotilde K.S. Carlow.**

New England Biolabs, Inc.

32 Tozer Road

Beverly, MA 01915

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SENIOR SCIENTIST

Automation (Code: AUT-1)

Responsible for the design and implementation of automated systems for biocatalytic syntheses and reaction processing. A scientist with synthetic experience at any level and expertise in benchtop process automation is strongly preferred.

SENIOR SCIENTIST

Microbiology (Code: MIC-1)

Further enhance EnzyMed's microbial transformation capabilities by identifying and developing synthetically useful strains. The successful candidate will have a Ph.D. in microbiology, molecular biology, or related area and experience in biotransformations or biodegradation. Expertise with PCR, new strain construction, P450 catalysis, fusion proteins or gene shuffling is a plus.

POSTDOCTORAL SCIENTIST

Microbiology (Code: MIC-3)

Opportunity for strain selection and development research to further enhance EnzyMed's microbial transformation capabilities. Requires a Ph.D. degree in molecular biology, microbiology or related area. Expertise in whole cell catalysis, strain improvement and new strain construction, PCR, P450.

SENIOR SCIENTIST

Synthetic Enzymology (Code: ENZ-1)

Seeking a Ph.D. scientist in chemical engineering, chemistry, biochemistry or related area with expertise in synthetic applications of biocatalysis, especially for the synthesis or modification of complex organic molecules. You will help expand EnzyMed's automated biotransformation capabilities for the derivatization of complex organic molecules. Experience with biocatalysis in non-aqueous media is a plus.

SCIENTIST

Synthetic Enzymology (Code: ENZ-2)

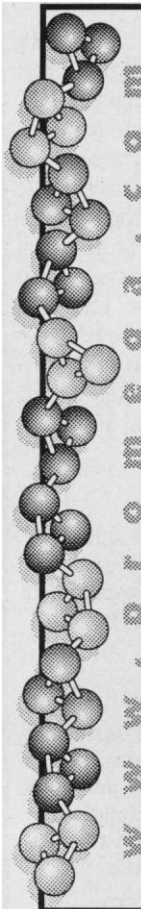
Help expand and apply our unique automated biocatalytic synthesis platform directed at the discovery of new pharmaceuticals and agrochemicals. We require a B.S. or M.S. scientist in chemistry, chemical engineering, biochemistry, microbiology, molecular biology or related area having expertise in the use of biocatalysts for the synthesis or modification of complex organic molecules.

For consideration, mail or fax your resume to:

EnzyMed, Inc.,
2501 Crosspark Road, Suite C-150,
Iowa City, IA 52242,

Fax (319) 626-5410
www.enzymed.com E.O.E.

Please include the job code for the desired position on the envelope and cover letter.




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Post Doctoral - Biochemistry

We are seeking a highly motivated Scientist with a Ph.D. in Biochemistry to join us in this 2 year Post Doctoral position. An interest in studying the role of small molecules in modulation of cell signaling mechanisms; and experience in techniques related to the study of proteins and peptides as they are applied to the study of protein functions in cell signaling research are required. A strong background in organic chemistry of biomolecules, specially peptides and small cell signaling molecules is preferred. Experience with tissue culture techniques, enzyme assays and expression of cloned molecules are a plus.

Make a power move in your career to Promega. For confidential consideration, please mail or e-mail your resume with salary requirements, to: **Promega Corporation, P.O. Box 7879, Madison, WI 53707-7879. E-mail: hr@promega.com.** To find out about other opportunities at Promega please call our Career Opportunities Line at **(800) 356-9526 option 9.** EOE



Promega


COMPUTATIONAL CHEMIST

Tularik Inc. is a rapidly growing, privately-held biopharmaceutical company dedicated to the discovery and development of novel therapeutic agents that regulate gene expression. We have recently completed a second, state-of-the-art research building on our campus in South San Francisco which has further increased our capacity to carry out leading-edge research & creative drug discovery. Tularik currently has ongoing projects in the areas of viral diseases, inflammation, hypercholesterolemia, immune disorders, obesity and bacterial diseases, and our continued growth has created a unique opportunity for a dedicated Computational Chemist to join our R&D team and help us shape the future of human therapeutics.

Working with a team of highly motivated structural biologists and medicinal chemists, the successful candidate will participate in the design of novel therapeutic molecules. In addition, he/she will actively promote the interchange of information and ideas between protein crystallography, bio-NMR and medicinal chemistry. The position requires a Ph.D. with at least 3 years of postdoctoral experience in conformational analysis, molecular docking, molecular dynamics, QSAR techniques and 3D chemical databases. Candidates with a background in organic synthetic chemistry will be preferred.

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**Tularik Inc.,
Human Resources Dept.
Position Code SC-NW
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South San Francisco, CA 94080
Fax: (650) 829-4303
Email: resume@tularik.com**



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RESEARCH and DEVELOPMENT SCIENTISTS

Avigen, Inc., a leader in the development of gene therapy based on adeno-associated virus (AAV) for the treatment of inherited & acquired diseases, has a great opportunity for a number of hands-on positions to join our research team in Alameda, Ca.

RESEARCH SCIENTISTS


We have opportunities for 1-2 molecular virologists (preferably with backgrounds in herpes or adenovirus biology), or cell biologists, to design and implement new methods for AAV vector production. Members of the group will also be involved in the development of new viral vector systems. Candidates must have a Ph.D. or MD and at least 3 years of postdoctoral experience in a relevant field.

DEVELOPMENT SCIENTIST

Position available for Development and Analytical Scientist, who will be responsible for process and assay development in the production of recombinant AAV vectors for clinical trials. Candidates must have a Ph.D. and at least 2 years experience in the relevant areas of purification and assay development. Experience with live virus production, GMP and small/large scale mammalian cell culture a plus.

We offer very competitive salaries, benefits paid in full by the Company, stock options, 401(k), and an exciting opportunity to work with a dynamic team focused on exploring the impact of gene therapy on selected human diseases.


To apply, email/send/fax resume, specifying position of interest, to: Avigen, Inc., Human Resources, 1201 Harbor Bay Parkway, Suite 1000, Alameda, CA 94502; e-mail: sdelph@avigen.com, fax: (510) 748-7155. EOE



AVIGEN

POSTDOCTORAL POSITIONS

Baylor College of Medicine



Molecular Physiology and Biophysics Program

CARDIOVASCULAR SCIENCES: Autonomic control of cardiovascular function (M. DeBiasi); Genetics of cardiovascular disease (R. Roberts). **DRUG DELIVERY:** Pulmonary drug delivery by liposome aerosols (V. Knight). **TRANSPORTERS & ION CHANNELS:** Ca⁺⁺-release channel (S.L. Hamilton); Ligand-gated ion channels (S.E. Pedersen); K⁺ channels (J. Bryan, D. Johnston, P.J. Pfaffinger); Ca⁺⁺ channels (S.M. Wu); Neurotransmitter transporters (H.K. Sarkar). **MUSCLE BIOLOGY:** Molecular signaling and myotonic protein kinase (H.F. Epstein); Muscle physiology and free radical biology (M.B. Reid); Excitation-contraction coupling (S.L. Hamilton). **RECEPTORS & VESICULAR TRAFFICKING:** GABA receptors (E.M. Barnes); G-protein coupled receptors (B.J. Knoll); Regulated exocytosis (B.F. Dickey); K⁺ channels (P.J. Pfaffinger). **STRUCTURAL BIOLOGY:** Electron cryomicroscopy (W. Chiu, S.L. Hamilton, H.F. Epstein); X-ray crystallography (F.A. Quiocho, P.J. Pfaffinger).

Applicants must hold Ph.D. or M.D. For information or to apply online, visit our web site at <http://www.bcm.tmc.edu/physiol/>. Send CV and the names of three references to: **Dr. Susan L. Hamilton, Dept. of Molecular Physiology & Biophysics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, or by email to: molphys@bcm.tmc.edu** Baylor College of Medicine is an Affirmative Action/Equal Opportunity employer.

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Program Officer

We are seeking a Program Officer for our Space Studies Board to manage studies and develop research background material. Responsibilities include developing and supporting technical and policy studies in the areas of space science research; organizing and managing study groups including meeting planning, preparing agendas and minutes; and performing other assigned duties. Requires a MA/MS or equivalent in physical or life science or science policy plus at least 4 years of relevant research or policy experience in life science or biological research in one or more of the following areas: space research, science or space policy, legislative or agency staff work, or program/project management. Ability to analyze and articulate issues and synthesize technical and policy oriented information is necessary. Intellectual initiative, strong planning, organizational, interpersonal, and oral and written communication skills are a must. Knowledge of internet-based information access and management desirable. (A full-time opportunity, but willing to consider a part-time schedule.)

We offer competitive salaries and an excellent benefits package. For consideration, please forward your resume with salary requirements to: National Academy of Sciences/SSB, HA-584, 2101 Constitution Ave., NW, Washington, DC 20418. Fax: (202) 334-3701.

EOE, M/F/D/V.

www.nas.edu

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DIRECTOR, OFFICE OF DIETARY SUPPLEMENTS National Institutes of Health, Public Health Service Department of Health and Human Services

The National Institutes of Health (NIH) invites applications for the position of Director, Office of Dietary Supplements, Office of Disease Prevention within the Office of the Director. This position may be filled through (1) Civil Service appointment, (2) leave from an institution of higher education, state, local or Indian tribal government or other eligible organization to serve on an Intergovernmental Personnel Act (IPA) assignment or (3) appointment as a Special Expert. The position is classified as a Nutritionist/Medical Officer, GS-630/602-15, with a salary range of \$80,658 to \$104,851 per year which includes locality pay. Physicians may be eligible for a Physicians Comparability Allowance.

Serves as a principal advisor on the issues of dietary supplements to the NIH, Centers for Disease Control and Prevention, and the Food and Drug Administration of the Public Health Service and to other Departments of the Federal Government. Coordinates, develops and supports research on dietary supplements across the Institutes and Centers at NIH. Represents NIH on interdepartmental committees. As a recognized expert in nutrition and prevention research, establishes and promotes liaisons with scientific societies, academic institutions and commercial interests. Works to further the commitment of NIH to conduct research on scientific issues related to the use of dietary supplements to improve public health. Maintains a database on NIH research. Maintains a bibliographic database on dietary supplements. The Director works with NIH Institutes and Centers to develop new research initiatives through Requests for Applications, Requests for Proposals and Program Announcements related to dietary supplements research and to appropriate training activities.

Applicants must possess a Ph.D. or M.D. or equivalent graduate degree in the field of nutrition, or a related science with broad biomedical expertise, or an equivalent combination of education and experience which has equipped the individual with the specific knowledge, skills and abilities to successfully perform the duties of the position. Desirable factors which should also be addressed: (1) knowledge of nutrition research and issues on nutrition supplements research; (2) knowledge of national nutrition policies and regulations; (3) demonstrated experience in compiling and summarizing databases; (4) demonstrated experience and skill in writing and editing technical reports for review by scientists and for publication; (5) demonstrated skill and experience in initiating research activities; and (6) skill in organizing and directing formal conferences and meetings.

Applicants are required to submit a current resume, Optional Application for Federal Employment (OF-612), Application for Federal Employment (SF-171) or equivalent format and are encouraged to include a description of accomplishments that demonstrate competence in the six desirable factors. In addition, veterans are required to submit a certificate of release or discharge and Federal employees should submit a copy of the most recent performance appraisal and Notification of Personnel Action form, SF-50.

A copy of the vacancy announcement, OD-99-2014, may be obtained by phoning (301) 496-2511. Applications must be postmarked by May, 1999. Send application the materials to:

National Institutes of Health -OD Executive Office
Business, Management Services-Team A
Building 1, Room 332
1 Center Dr. MSC 0812
Bethesda, MD 20892-0812

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

NIH IS AN EQUAL OPPORTUNITY EMPLOYER.



The U.S. Department of Agriculture, Agricultural Research Service (ARS), Beltsville Agricultural Research Center, Plant Sciences Institute, Horticultural Crops Quality Laboratory in Beltsville, Maryland is seeking two permanent research scientists, a Plant Physiologist, GS-435-12/13 and a Microbiologist, GS-14/15. Salary is commensurate with experience (GS-12: \$48,796-\$63,436 per annum; GS-13: \$58,027-\$75,433 per annum; GS-14: \$68,570-\$89,142 per annum; and GS-15: \$80,658-\$104,851 per annum) plus benefits. **CANDIDATES MUST BE U.S. CITIZENS.** The Plant Physiologist will study the physiological and biochemical factors of fruits and vegetables that allow human pathogenic bacteria to contaminate and grow, particularly after fresh-cut processing. The Microbiologist will serve as a project leader studying the ability of human pathogenic bacteria to contaminate and grow on fresh and fresh-cut fruits and vegetables. Applicants must have appropriate qualifying education in plant physiology and microbiology respectively and/or have professional research experience as follows: For the Plant Physiologist position, candidates must have (1) knowledge of principles, practices, and procedures of postharvest biology, and (2) skill in the techniques used in the research of plant physiology in relation to postharvest biology. The Microbiologist position requires (1) knowledge of the principles, practices, and procedures of microbiology and food technology; (2) skill in the techniques used in the research of microbiological safety of foods; and (3) ability to lead a multidisciplinary research program, including coordination of projects and directing, motivating, training, providing guidance and assigning priorities to a diverse group of people. Both positions require the ability to design, plan, and conduct research and publish the results. **For research program information, contact Dr. Ken Gross at 301-504-6128. For complete application instructions, call 301-504-1484 to request vacancy announcement number ARS-X9E-9096 for the Plant Physiologist and/or ARS-X9E-9095 for the Microbiologist position, or print it from the internet at <http://www.ars.usda.gov>. All application materials must be postmarked by March 1, 1999. USDA/ARS is an equal opportunity employer and provider.**



**St. Jude Children's
Research Hospital**

ALSAC • Danny Thomas, Founder

Postdoctoral Research Associate

St. Jude Children's Research Hospital, a private patient care and research institute, is engaged in ongoing expansion of its facilities as well as patient care and scientific activities. The Department of Hematology/Oncology is seeking applications for postdoctoral research associates to assist with the collection and analysis of data for specified research projects focused on determining (1) the molecular basis for the co-regulation of cell division and cellular differentiation in skeletal muscle and neuronal cells, (2) the consequences of manipulating the cellular differentiation program in models of poorly-differentiated tumors, and (3) the identification and characterization of novel genes in key tumor suppressor gene pathways. Candidates should have a PhD (or equivalent) degree. The successful candidates will join a large group of researchers conducting clinical and basic research. Collaborative interaction with other departments is strongly encouraged. The facilities and salaries are competitive and a generous benefit package is included. Letter of inquiry with a CV should be sent to: Dr. Steven Skapek, Department of Hematology-Oncology, St. Jude Children's Research Hospital, 332 North Lauderdale D1034, Memphis TN 38105, ATTN: Cynthia Brock.

*St. Jude Children's Research Hospital is an Equal Opportunity/
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BREAST CANCER PHYSICIAN-SCIENTIST



A Comprehensive Cancer
Center Designated by the
National Cancer Institute

The Division of Hematology/Oncology of the Department of Medicine and the Cancer Center at Case Western Reserve University (CWRU) and University Hospitals of Cleveland, a Comprehensive Cancer Center Designated by the National Cancer Institute, seek an outstanding M.D. or M.D./Ph.D. trained in Basic or Translational Cancer Research and Medical Oncology. At the level of assistant or associate professor, this individual will participate in an interdisciplinary program emphasizing basic and clinical breast cancer research within a superb academic environment. *Send letter of interest and CV to:* Clark W. Distelhorst, M.D., Division of Hematology/Oncology, CWRU, 10900 Euclid Avenue, BRB 329, Cleveland, Ohio 44106-4937. *Phone* 216/368-1175. *Fax* 216/368-1166. *E-Mail* [cwg@po.cwru.edu](mailto:cwd@po.cwru.edu).



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affirmative action and equal opportunity.

HUNTER COLLEGE OF THE CITY UNIVERSITY OF NEW YORK



DEAN OF RESEARCH

Hunter College seeks applications and nominations for the newly created position of Dean of Research. Hunter College currently receives over \$27 million in external research funding. The college seeks a dynamic and creative individual to provide the leadership necessary to continue growth of the College's research programs. The Dean is expected to develop and promote policies that support ongoing research and represent the College's research to federal, state, and local governments, corporations, foundations, and other educational institutions. The Dean will develop new research initiatives, coordinate interdisciplinary efforts and encourage innovative projects, including incubator agreements. The Dean, who reports to the Provost, works with other Deans, administrators, faculty and serves as a member of the President's Cabinet.

QUALIFICATIONS: The successful candidate must have a Ph.D. or equivalent, as well as an outstanding research record, which would qualify for appointment as a tenured full Professor in an academic department at Hunter College. Appropriate research or administrative experience is required.

SALARY: \$92,904 - \$106,916

START DATE: July 1, 1999

Review will commence on March 15, 1999, and will continue until the search is concluded. Send resume and statement of interest to: **Charles E. Hayes, Director, Human Resources, Hunter College, 695 Park Avenue, Room E1502, New York, New York 10021.**

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POSTDOCTORAL TRAINING FELLOWSHIP Angiostasis Research

Challenging position available at the Blood Research Institute of the Blood Center of Southeastern Wisconsin to pursue studies of the regulation of endothelial cell proliferation and angiogenesis. Other investigations concern the pathogenesis of heparin-induced thrombocytopenia and thrombosis. Motivated candidates with a strong background in cellular biology, molecular biology, signal transduction, and cell cycle control are especially encouraged to apply.

The NIH funding for this training fellowship is restricted to U.S. citizens and permanent residents. Position immediately available. Interested/qualified individuals with a M.D. or Ph.D. degree should direct applications including CV, list of references, and a cover letter explaining research interest and expertise to:

Dr. John Adamson
Exec. VP for Research
Director Blood Research Institute
Blood Research Institute
c/o The Blood Center
Human Resource Dept.
638 N. 18th
Milwaukee, WI 53233-2121
E-mail: djkaht@bcsew.edu
Phone: 414-937-6311
Fax: 414-937-6470

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PENNSTATE



College of
Medicine

FACULTY POSITION IN MOLECULAR AND CELLULAR PHARMACOLOGY

A tenure-track position at the assistant or associate professor level requiring a Ph.D., M.D./Ph.D., or M.D. degree in Pharmacology or another relevant biomedical science. Also required are postdoctoral training and expertise in molecular and cellular approaches to problems in pharmacology, toxicology or experimental therapeutics. Candidates interested in molecular and cellular pharmacology, including cell signaling, cancer research, apoptosis, receptors, neuropharmacology, molecular toxicology, ion transport, and drug discovery are encouraged to apply. Proven capability in generating extramural support and ability to work as an independent investigator are crucial in the selection process. The successful candidate will also participate in teaching medical and graduate students. Ample start-up funds are available and salary will be commensurate with experience and qualifications. Interested applicants should send a curriculum vitae, statement of research interests, three representative reprints, and names and addresses of three references to: Dr. Elliot S. Vesell, Department of Pharmacology, Penn State University College of Medicine, 500 University Drive, MC H078, Hershey, PA 17033. Deadline for receipt of applicants is April 30, 1999.

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

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Skillman, NJ

Post-Doctoral Fellowships – Skin Biology Research Center

The fellowships are for at least a two-year period and are spent studying the biology of skin with a special focus on the pilosebaceous apparatus. All applicants are expected to have a solid background in molecular biology with demonstrated enthusiasm for science, the ability to work independently in the laboratory, and the experience of writing and publishing papers. The on-going projects may involve a combination of skills in positional cloning, gene isolation and expression, cell culture, *in vivo* models and lipid metabolism. The fellow should expect to join a group of basic researchers who enjoy extensive collaborations, research communications, literature reviews, and external contacts. **Dept. 2829**

◆
ORTHO BIOTECH

Raritan, NJ

Scientist/Senior Scientist – Mammalian Cell Culture

In this position, you will assume responsibilities for Ortho Biotech laboratory activities supporting the development and transfer of process improvements related to large scale production of mammalian cell culture. As the technical liaison between the biopharmaceutical manufacturing function and R&D, you will manage activities related to optimizing media development, cell banking, inoculum and cell culture engineering of large-scale GMP production.

To qualify, you must have a BA, MA or a Ph.D. in Molecular Biology, Biochemical Engineering, or a related discipline; experience in cell culture optimization for different mammalian cell lines; and/or management experience in the technology transfer of all aspects of Mammalian Cell Culture process development (scale-up, GMP cell banking, glycosylation, media/inoculum development, yield and cost improvement). In addition, you must demonstrate a strong working knowledge of technology evaluation of commercial scale production of recombinant proteins/monoclonal antibodies (following current GMP and FDA regulations), and excellent written and oral communications skills. (Recent doctoral program graduates with research experience in cell culture optimization for mammalian cell lines are encouraged to apply.) **Dept. 2841.**

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www.jnj.com

If you do not have Internet access, please forward a scannable resume, noting the appropriate department code and salary requirement to: **Dept. # of position of interest, Johnson & Johnson Recruiting, PO Box 16597, New Brunswick, NJ 08906-6597.** An equal opportunity employer, m/f/d/v, committed to diversity in the workplace.

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Intellectual Property Analyst

Maxygen is the leader in the design, development and application of directed evolution technologies to evolve new properties into single genes, pathways, plasmids, viruses and genomes. This revolutionary technology along with our rapid growth provides a challenging, stimulating environment for creative, motivated individuals who desire to make a significant contribution toward our success.

MAXYGEN

This newly created position will manage the invention disclosure/patentability assessment process & patent committee meetings; support patent prosecution work; monitor competitors' intellectual property & academic intellectual property; assist in the negotiation of patent licenses; and provide scientific/technical support for patent work in inter-parties matters. A Ph.D. or an advanced degree in biological sciences, Patent Agent license and intellectual property experience preferred.

We offer an excellent salary/compensation package. Please visit our website at: www.maxygen.com for more information. We are moving to a site in Redwood City, CA in early 1999. Send resumes to: **Maxygen, Human Resources, (Attn: Job# SCI0212-IPA), 3410 Central Expressway, Santa Clara, CA 95051; or email: jobs@maxygen.com.**

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Postdoctoral Positions in Cell and Molecular Biology

The Cell and Molecular Biology Group (LS-4) (<http://lsdo.lanl.gov/cell.htm>) in the Life Sciences Division at Los Alamos National Laboratory is seeking 1-2 postdoctoral candidates to perform basic research in cellular and molecular responses to low-level ionizing radiation and reactive oxygen species. Individuals with backgrounds in radiation biology, including DNA damage and repair, cell cycle regulation, and oxidative stress are encouraged to apply. Ideally, candidates will have extensive research experience with state-of-the-art approaches required for elucidating cellular responses in the context of functional genomics and proteomics. Current starting salaries in the Life Sciences Division range from \$39,120 - \$42,240. For additional technical information, contact Dr. Bruce E. Lehnert at (505) 667-2753 or lehnert@telomere.lanl.gov.

A Ph.D. completed within the last three years or soon to be completed is required. Further details about the Postdoctoral Program may be found at: <http://www.hr.lanl.gov/postdoc/> For consideration, submit a resume and publications list, along with a cover letter outlining current research interests, undergraduate and graduate transcripts, and 3 letters of recommendation to postdoc-jobs@lanl.gov (no attachments, please!) OR SUBMIT TWO COPIES to: Postdoc Program Office, SCIENCE-PD994515, HR-5, MS-P290, Los Alamos National Laboratory, Los Alamos, NM 87545. NOTE: Advertisement #SCIENCE-PD994515 must be referenced in the e-mail Subject line (or the address) and cover letter.

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At the New York Blood Center, we find new ways to make a difference every day. As the nation's pre-eminent independent blood research, collection and distribution organization, we're committed to using our groundbreaking research to develop life-saving products. Currently, we have a superb opportunity available for a serious candidate to be part of the Lindsley F. Kimball Research Institute, a multi-disciplinary biomedical research institute with over 60 Scientists working in 19 independent departments.

**Research Scientist
-Malaria Research-
Lindsley F. Kimball
Research Institute**

This new project on malaria research will be part of existing programs on host-parasite interactions in the Laboratory of Molecular Parasitology, and is aimed at studying invasion and post-invasion

modifications of the RBC. Position requires a Ph.D. with 3+ years of productive postdoctoral experience in molecular and cell biology, and outstanding potential to develop a research program in malaria. Successful candidate will also be independent, creative and self motivated. Excellent communication skills and a demonstrated track record in research and the ability to attract outside funding after an initial period of support of 2-3 years will be expected. Experience in malaria research and biological assays is desirable.

We offer competitive salary and comprehensive benefits package. For consideration, please fax (212)468-2082, email: careers@ccmail.nybc.org, or send your CV and 3 names of references, to: Human Resources Dept-MK, New York Blood Center, 150 Amsterdam Avenue, NY, NY 10023. EOE M/F/D/V

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**St. Jude Children's
Research Hospital**
ALSAC - Danny Thomas, Founder

POSTDOCTORAL POSITION SIGNAL TRANSDUCTION BY MITOGENIC RECEPTORS

A postdoctoral position is available to study signal transduction pathways activated by neuropeptide and growth factor receptors in astroglial brain tumors. The role of these mitogenic receptors in stimulating the growth and survival of astroglial cells is being investigated using molecular, biochemical and pharmacological approaches. Candidates should have strong research experience and a Ph.D. in Molecular Biology, Biochemistry or a related field. Interest in cancer research is a plus.

St. Jude Children's Research Hospital (Danny Thomas, Founder) is an outstanding research center for biomedical research and provides an exceptional environment for scientific achievement and career development. Stipend and benefits are highly competitive.

Send a letter of interest, curriculum vitae and names of three references to: **Dr. M. Sharif, Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, Tennessee 38105. Fax: (901) 521-1668.**

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Requirements: Ph.D. in electrophysiology, biophysics, or physiology. Experience with cellular electrophysiology, imaging and single channel analysis desirable. Must possess excellent verbal communication and writing skills.

Please send, fax or email your resume & cover letter to: **Axon Instruments, Inc.**, Human Resources, Attn: Job# SCI0212-SAMS, 1101 Chess Drive, Foster City, CA 94404; fax: (650) 571-9500; email: jobs@axonet.com.

Principals only
EOE/AA

Axon Instruments, Inc.

UNIVERSITY OF PENNSYLVANIA

SCHOOL OF MEDICINE CHAIR, DEPARTMENT OF NEUROLOGY

The University of Pennsylvania School of Medicine seeks outstanding candidates for the position of Professor and Chair of the Department of Neurology.

The successful applicant will be of international stature in his/her area of the field and will provide academic leadership in the broadly defined area of Neurology. Applicants should have demonstrated qualifications in the administration of a large program in education, research, and patient care.

Letters of interest, curriculum vitae, and names of references should be sent to:

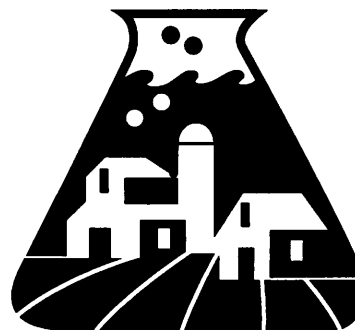
Arthur K. Asbury, M.D.
Chair, Neurology Search Committee
University of Pennsylvania
School of Medicine
Department of Neurology
3 West Gates
3400 Spruce Street
Philadelphia, PA 19104



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POSITIONS OPEN



FACULTY POSITIONS. The Universidad Central del Caribe, a LCME-accredited private nonprofit medical school in the San Juan Metropolitan area of Puerto Rico, seeks applicants for full-time faculty positions in the areas of microbiology and pharmacology. The positions are open for immediate filling. Successful applicants should have a Ph.D. or M.D. degree and will be expected to participate in the training of both medical and graduate students, to develop an independently funded research program, and to collaborate with existing basic and clinical science faculty members. Limited start-up funds and laboratory space is available. Please send curriculum vitae, representative publications, statements of research interests, and names of three references to: **Dr. Julia Bonilla, Dean of Medicine, Universidad Central del Caribe, School of Medicine, P.O. Box 60-327, Bayamón, PR 00960-6032. FAX: 787-740-4390.**

FACULTY POSITION

The Department of Microbiology and Immunology at the University of Arizona in Tucson, Arizona invites applications for a faculty position in the College of Medicine that will be available in August 1999. Preference will be given to scientists working in the areas of bacterial or viral pathogenesis with a molecular and/or immunologic focus. This is a full-time, tenure-track position and, depending on qualifications, may involve an appointment at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Candidates must have a Ph.D. degree or its equivalent, postdoctoral research experience, and evidence of outstanding research accomplishments. Candidates for senior appointment should have national recognition and established extramural funding. New laboratory facilities, substantial start-up funds, and a salary commensurate with experience will be provided. The successful applicant will be expected to develop and maintain a funded research program of high quality and to actively participate in the graduate and medical school teaching programs of the Department. Applicants should send a curriculum vitae with a complete list of publications, a summary of research interests and goals, a statement on teaching interests, and names of three references to: **Chairman, Search Committee, Department of Microbiology and Immunology, University of Arizona, P.O. Box 245049, Tucson, AZ 85724.** For more information on the Department please see website: <http://w3.arizona.edu/~mbim/>. Review of application material will begin April 1, 1999, and will continue until the position is filled. *The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer. Minorities/Women/Disabled/Veterans.*

FACULTY POSITION IN BIOMATERIALS THE JOHNS HOPKINS UNIVERSITY

The Department of Materials Science and Engineering at the Johns Hopkins University invites applications for a faculty position in biomaterials. Specific areas of interest include materials for use in tissue engineering, biotechnology of materials, materials in therapies for human diseases, and materials processing, characterization, and engineering at the interface between devices and biological systems. The successful candidate will be expected to develop an innovative research program and teach at both the undergraduate and graduate level. Applicants should have a Ph.D. in materials science and engineering or related field and must have demonstrated ability to undertake interdisciplinary research. Postdoctoral experience is highly desirable. It is anticipated that the appointment will be at the **ASSISTANT PROFESSOR** level although an appointment at the **ASSOCIATE or FULL PROFESSOR** level will be considered. Applicants should submit a detailed résumé, a statement of research plans, teaching interests, and the names, addresses (including e-mail), and telephone numbers of three references to: **Chair, Search Committee, Department of Materials Science and Engineering, 102 Maryland Hall, The Johns Hopkins University, Baltimore, MD 21218.** To ensure full consideration, applications should be received by March 26, 1999.

Women and minorities are strongly encouraged to apply. Johns Hopkins University is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN



FACULTY POSITION IN PROSTATE CANCER RESEARCH

The Department of Biochemistry and Molecular Biology invites applications for a tenure-track position preferably at the rank of **ASSISTANT PROFESSOR**. The ideal candidate will have research interests and experience that will supplement ongoing research in the Prostate Cancer Research Program. Development of a center of excellence in prostate cancer research is one of the strategic goals of the College of Medicine. Further information about the program and this available position can be obtained at website: <http://www.unmc.edu/Biochemistry/>.

Qualifications include a Ph.D. or M.D. degree and relevant postdoctoral experience. Preference will be given to outstanding candidates who can apply state-of-the-art approaches in molecular endocrinology, gene/nutrient interactions, and/or molecular genetics to prostate cancer research. The successful applicant will be expected to have or develop a funded, independent research program and to contribute significantly to the teaching programs of the department. Applications will be reviewed beginning April 30, 1999. Submit curriculum vitae, selected reprints, a brief description of current and future research interests, teaching experience, and three letters of reference to: **Chair, Prostate Cancer Search Committee, Department of Biochemistry/Molecular Biology 984525 Nebraska Medical Center, Omaha, NE 68198-4525.**

UNMC is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

FACULTY POSITION PHYSIOLOGY AND MOLECULAR GENETICS MEDICAL COLLEGE OF OHIO Toledo, Ohio

The Department of Physiology and Molecular Medicine at the Medical College of Ohio invites applications for a tenure-track position at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. All candidates with a record of excellence in research and a commitment to graduate and medical education will be considered. Candidates conducting research in genomics or molecular genetics are especially encouraged to apply. The successful candidate will join a department with strengths in the molecular biology/genetics of hypertension and aerobic exercise capacity, for which unique animal models are available. Candidates must have postdoctoral research experience and demonstrate significant potential for developing into an independent scholar. Review of applications will begin immediately, and continue until a suitable candidate is hired. To apply, send curriculum vitae and the names of three references to:

Steven L. Britton, Ph.D.

Chairman of Search Committee

**Department of Physiology and Molecular Medicine
Block Health Science Building
Medical College of Ohio
3035 Arlington Avenue
Toledo, OH 43614-5804**

The Medical College of Ohio is an Affirmative Action/Equal Opportunity Employer.

PRECLINICAL FACULTY

As part of an ongoing faculty enhancement program, Lake Erie College of Osteopathic Medicine (LECOM) invites applications for full-time Doctoral-level preclinical faculty positions in medical anatomy, biochemistry, microbiology, pharmacology, and physiology. Appointees should have excellent teaching skills with experience in medical school education. Faculty are also expected to develop productive research programs. Rank is based upon qualifications and experience; salary is competitive. Opportunities also exist for future administrative advancement. Applicants should send a curriculum vitae, a brief summary of teaching interests and research plans, names, addresses, and telephone numbers of at least three professional references, to: **Silvia M. Ferretti, D.O., Dean and Vice-President of Academic Affairs, Lake Erie College of Osteopathic Medicine, 1858 West Grandview Boulevard, Erie, PA 16509.** Applications will be screened immediately and will continue to be accepted until all positions are filled. *LECOM is an Affirmative Action/Equal Opportunity Employer and encourages female and minority candidates.*

POSITIONS OPEN



Will 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 developmental genetics and telomere/chromosome functions. 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 a curriculum vitae, statement of research interests and three letters of recommendation. Applications should be sent to: **Bernadette M. Mosellie, Genetic Medicine Recruitment Team, Box# 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.**

Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.

CHAIR OF BIOLOGY UNIVERSITY OF LOUISVILLE

The Department of Biology is seeking candidates for the position of Chair. The University of Louisville is a major metropolitan university with current enrollment of 21,000 students. The Biology Department currently has 17 full-time tenured or tenure-track faculty, 83 graduate students, 671 declared undergraduate majors, and offers an M.S. in biology and a Ph.D. in environmental biology. Candidates for the position of Chair must have a strong record of teaching and extramurally funded research. Preference will be given to candidates with administrative experience and whose research and teaching interests complement those of the department. The new Chair will have the opportunity to participate with the department in the hiring of several new junior- and senior-level faculty in the next few years. Review of applications will commence immediately and continue until a suitable candidate is chosen. Applicants should send a statement of research interests, statement of teaching philosophy, current curriculum vitae, and reprints of their five most significant publications. In addition, the names, telephone numbers, and e-mail addresses of at least five references should be included with the materials. Send application materials to: **Chair Search Committee, University of Louisville, Department of Biology, Louisville, KY 40208.** Further information is available at website: www.louisville.edu/a-s/biology/search.html. *Women and minorities are encouraged to apply. The University of Louisville is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS UNIVERSITY OF MINNESOTA COLLEGE OF NATURAL RESOURCES

ASSISTANT PROFESSOR. Forest ecology, tenure-track, teaching and research emphasis. Available June 1, 1999.

ASSISTANT PROFESSOR. Human dimensions of natural resources and environmental management, tenure-track, teaching and research emphasis. Seeking background in the social or behavioral sciences (e.g., political science, policy, planning, law, social psychology, sociology, or geography). An ability to convey diverse cultural perspectives is preferred. Available May 15, 1999.

ASSISTANT PROFESSOR. Silviculture, tenure-track, research and extension emphasis, at the University's North Central Experiment Station in Grand Rapids, Minnesota. Available May 15, 1999.

Full position description and application information available at: **Telephone: 612-624-3400; FAX: 612-625-5212; website: <http://www.cnr.umn.edu/FR>.** *The University of Minnesota is an Equal Opportunity Educator and Employer.*

POSTDOCTORAL POSITIONS UMDNJ-NEWARK

University of Medicine and Dentistry, Department of Pharmacology & Physiology at New Jersey Medical School announces postdoctoral opportunities for scientists interested in innovative studies in membrane transport and cell physiology. The positions are in a vigorous and expanding group of laboratories focused on ion channel and transporter structure-function, exocytosis and calcium signaling. Approaches include biophysical, molecular, genetic, optical and biochemical techniques. Experience in two or more of these areas is desired and for some projects quantitative analytical skills are beneficial.

Laboratories with postdoctoral positions available: Dr. Joshua R. Berlin: mechanisms of electrogenic ion transport, cardiac excitation-contraction coupling; Dr. Andrew L. Harris: molecular selectivity and modulation of connexin channels; Dr. Martha C. Nowycky: regulation of Ca^{2+} dynamics, mechanisms of Ca^{2+} -dependent membrane traffic; Dr. Andrew P. Thomas: Ca^{2+} -dependent signal transduction; pharmacology of excitation-contraction coupling.

The Department and New Jersey Medical School are undergoing substantial growth and revitalization. The campus is less than 15 minutes from Manhattan by train, and is adjacent to Rutgers University and the New Jersey Institute of Technology.

Visit our web site:
www.umdj.edu/phys/home.html
for additional information

Interested candidates should send a statement of research interests, CV and names of three references, indicating the faculty member(s) of particular interest to: **Postdoctoral Positions; Department of Pharmacology & Physiology; New Jersey Medical School of UMDNJ, 185 South Orange Ave., University Heights, Newark, NJ 07103-2714.**



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

GRANT

NEUROSCIENCE

THE EJLB FOUNDATION SCHOLAR RESEARCH PROGRAMME

The EJLB Foundation awards each year up to seven (7) grants for research projects in all areas of neuroscience that pertain directly or indirectly to schizophrenia and mental diseases. Specific areas of support in the past have included: developmental neurobiology, synaptic mechanisms, systems and cognitive neuroscience, and clinical studies on the genetic and physiopathologic aspects of neurological and psychiatric disorders.

Eligibility for such grants is restricted to young scientists who are pursuing an independent research career and have given evidence of having significant potential. It is also a requirement that these scientists (i) have earned an MD and/or a Ph.D. degree; (ii) have completed their post-graduate training; and (iii) have been admitted after June 15, 1994 as faculty members of a leading university, or an affiliated non-profit research centre, in Canada or elsewhere in the world.

Each grant is of CAN\$300,000, is disbursed over three (3) years and is non-renewable.

The next closing date for receipt of letters of intent is **May 3, 1999.**

Full details regarding this programme and required letter of intent forms may be obtained from:

The EJLB Foundation
1350 Sherbrooke Street West - Suite 1050
Montréal, Québec
CANADA H3G 1J1.
Fax (for inquiries only) 514-843-4080.

Computational Genomics *at Cornell*

As part of a major, university-wide genomics initiative, Cornell University is soliciting applications from outstanding candidates for both faculty and senior (Ph.D.-level) staff in the area of computational genomics. The appointees will all be associated with the newly created Institute for Computational Genomics within the Cornell Theory Center and intensively interact with researchers throughout the university. More information about the Cornell Genomics Initiative, and links to individual position descriptions can be found at <http://www.tc.cornell.edu/Research/ICG/>. Applications for the **faculty** positions will be reviewed beginning **February 1, 1999**, those for those for the **staff** positions will be reviewed starting **May 1, 1999**.

FACULTY POSITIONS

In all cases, a strong emphasis will be placed on identify exceptionally talented individuals with strong computational science and analytical backgrounds who are interested in teaching and collaborative research on computational approaches to solving biological questions.

Director, Institute for Computational Genomics: Coordinating Institute activities, developing interactions and partnerships with industry and other academic institutions, developing funding opportunities, and maintaining a vigorous research program. This position will be supported at the University level and the departmental affiliation will be determined by the successful applicant and the search committee from departments within the College of Engineering on the Ithaca campus. Strong research interests in computational aspects of biology are required. Applicants with interests in modeling feedback and control mechanisms in metabolic and gene expression pathways, structural biology, comparative genomics, visualization, databases, and high-performance computing to support computational biology are of particular interest. We are looking for candidates with demonstrated research accomplishments and commitment to excellence in teaching. Significant administrative experience is also desirable. For further information, please visit <http://www.cs.cornell.edu/> (reference CB #6)

Assistant/Associate Professor: Development of new algorithmic approaches to computational problems in genomics. Areas of particular interest are algorithms for genomic analysis, simulation, visualization, databases, and high-performance computing. The departmental affiliation for this position will be determined by the successful applicant and the search committee from departments within the College of Engineering on the Ithaca campus. For further information, please visit <http://www.cs.cornell.edu/> (reference CB #2)

Assistant Professor: Develop, test and implement new statistical algorithms relevant to genomics research. Interests in application in comparative and functional genomics and genomic diversity are of special interest. The departmental affiliation for this position will be determined by the successful applicant and the search committee from departments within the College of Agriculture and Life Science on the Ithaca campus. Contact Dr. Charles McCulloch (cem1@cornell.edu) or Dr. Charles Aquadro (cfa1@cornell.edu)

Research Associate Professors: Two positions are open within the Medical College for computational biologists. One position will be associated with the program in genetic medicine, and the other with the program in structural biology. These are non-tenure track faculty positions located in New York City. Contact Dr. Lisa Staiano-Coico (lisasc@mail.med.cornell.edu)

STAFF POSITIONS

Three senior staff positions are open within the Institute for Computational Genomics in the areas of sequence analysis techniques, including database and knowledge base technologies, parallel algorithm development and implementation, and scientific visualization and molecular graphics. However, applications are encouraged from applicants in all areas of computational genomics. In addition, exceptional individuals with strong analytical skills and outstanding credentials in traditional mathematical, physical, or engineering sciences and a proven track record in biologically-related interdisciplinary research will also be considered.

The primary responsibility of the appointees in these positions will be to function as consultants and collaborators on interdisciplinary research teams lead by university faculty; they will have a non-tenure track academic appointment in an appropriate department. These positions are funded through significant partnerships with federal and state agencies, foundations, private industry, and university funds. The academic appointment and salary level will be commensurate with the applicable skills and experience. Contact David Schneider (schneid@tc.cornell.edu)

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CORNELL
U N I V E R S I T Y

POSITIONS OPEN

FACULTY POSITION MOLECULAR NUTRITION

The Committee on Human Nutrition at the University of Chicago invites applications for faculty position as part of a programmatic expansion in the area of molecular nutrition and metabolism. Appointment will be made at the **INSTRUCTOR** or **ASSISTANT PROFESSOR** level, but applications from more senior faculty will certainly be entertained. Applications are sought from well-trained individuals with demonstrated potential to develop a strong extramurally funded research program.

The Committee on Human Nutrition maintains a distinct program of graduate study and has a faculty base with strong research interests that include the molecular regulation of adipocyte differentiation and cell fate determination, molecular genetics of human lipoprotein transport mechanisms, susceptibility genes in types I and II diabetes mellitus, the regulation of vitamin D transport, biological functions of the vitamin D receptor, and molecular mechanisms of colon carcinogenesis.

We seek applications from individuals using the tools of contemporary molecular biology to approach important questions in molecular nutrition. Such areas include, but are not confined to, nutrient regulation of gene expression, metabolism, neuroendocrinology of appetite control, and genetic control of nutrient metabolism. Generous start-up support and state-of-the-art laboratory space will be available, together with access to departmental and institutional core facilities.

Applicant should submit curriculum vitae, selected reports, a description of research interests and career goals, together with the names, addresses, and FAX numbers of three references to:

Dr. Reed Graves
Committee on Human Nutrition
University of Chicago, MC4080
5841 South Maryland Avenue
Chicago, IL 60637

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

FACULTY POSITIONS NEUROSCIENCE/PHYSIOLOGY (ONE) NEUROSCIENCE/ANATOMY (ONE)

The Department of Biomedical Sciences, Iowa State University invites applications for two full-time tenure-track faculty positions in neuroscience: neuroscience/physiology and neuroscience/anatomy. Candidates should have a Ph.D. degree and record of research productivity and will be expected to develop an active independent research program in neuroscience or molecular biology. The incumbents will assist in teaching professional and graduate courses in veterinary anatomy or physiology. Salary is competitive, depending on the experience, training, and accomplishments of the candidate. Applications will be processed as received, and review of candidates will begin March 15, 1999. Send a letter of application, curriculum vitae, and names of three references to: **Dr. Norman Cheville, Department of Biomedical Sciences, College of Veterinary Medicine, Iowa State University, Ames, IA 50011-1250. Telephone: 515-294-2470; e-mail: ncheville@iastate.edu.** For additional information, contact: **Dr. Richard Martin, e-mail: r.j.martin@ed.ac.uk. Iowa State University is an Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITION

The Department of Molecular Biology at Vanderbilt University seeks candidates to fill a **TENURED** or **TENURE-TRACK** faculty position (rank open) in molecular genetics. For information about Vanderbilt and the Department, visit our website: <http://www.vanderbilt.edu>. The central criteria are excellence in research and the ability to teach effectively at undergraduate and graduate levels. Applicants should send a letter of application together with a curriculum vitae and a statement of current and future research interests to: **Professor James V. Stros, Chair, Department of Molecular Biology, Vanderbilt University, Box 1820 Station B, Nashville, TN 37235 USA.** Junior faculty applicants should also arrange for three letters of recommendation to be sent to the same address. Senior faculty applicants should provide a list of six references who would be willing to provide letters on request. Review of applications will begin as applications are received and will continue until the position is filled. *Vanderbilt University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are especially encouraged to apply.*

POSITIONS OPEN

CHAIR DEPARTMENT OF MOLECULAR BIOLOGY AND MICROBIOLOGY

Case Western Reserve University School of Medicine is seeking an outstanding scientist to Chair the Department of Molecular Biology and Microbiology. This is an exceptional opportunity to lead a prominent Department with a record of excellence in teaching and research in an unusually collaborative and open academic environment. The candidate is expected to hold a Ph.D. and/or M.D. degree, should qualify for appointment at the rank of Professor, and should have demonstrated administrative and leadership ability with a strong record of accomplishment in research and training in innovative areas of molecular biology and microbiology. The successful candidate will define the future direction of the Department by building on the excellence of its research and teaching missions. For information on the Department, see website: <http://www.cwru.edu/med/microbio/mbio.htm>.

Interested candidates should send a curriculum vitae to: **Search Committee for Molecular Biology and Microbiology Chair, c/o John H. Nilsson, Ph.D., Case Western Reserve University School of Medicine, W-319, 10900 Euclid Avenue, Cleveland, OH 44106-4965. E-mail: jhn@po.cwru.edu.**

Case Western Reserve University is an Affirmative Action/Equal Opportunity Employer. Qualified women and minority group members are encouraged to apply.

The University of New England's Department of Life Sciences invites applications for two positions starting June 1, 1999:

ASSISTANT PROFESSOR. 12-month, full-time, tenure-track position to teach gross anatomy and neuroscience, as well as laboratory sections in anatomy and physiology, to Bachelor's and Master's-level students in Physician Assistant, physical therapy, and occupational therapy programs. A Ph.D. in anatomy or related field, additional expertise in neuroscience, and demonstrated teaching excellence are required. The individual will hold a joint appointment in the College of Arts and Sciences and College of Osteopathic Medicine and must maintain an active research program, preferably involving student collaboration.

LABORATORY INSTRUCTOR. 12-month, full-time, non-tenure-track position in gross anatomy. A Master's degree in anatomy or related field is required. The individual will assist with laboratory preparation and instruction.

Applicants for both positions should submit curriculum vitae, transcripts, and statement of teaching philosophy, and arrange for submission of three letters of recommendation. Applicants for the tenure-track position should also submit an outline of research interests/plans. Send materials to: **David A. Sandmire, M.D., Department of Life Sciences, University of New England, 11 Hills Beach Road, Biddeford, ME 04005.** Review of applications will begin March 5, 1999.

The University of New England (website: <http://www.une.edu>) is an Equal Opportunity/Affirmative Action Employer and welcomes female and minority candidates.

TENURE 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 either breast or hematopoietic systems with interest in oncology 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 three 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.*

POSITIONS OPEN

FACULTY POSITION IN CELL BIOLOGY THE LERNER RESEARCH INSTITUTE CLEVELAND CLINIC FOUNDATION

The Department of Cell Biology is seeking to fill an **ASSISTANT** or **ASSOCIATE PROFESSOR**-level position. The successful candidate (Ph.D. or M.D.) will establish an independent research program as well as collaborative ties with other faculty. Current programs include regulation of vascular cell gene expression, intracellular signaling pathways, lipid and lipoprotein oxidation, cell growth and migration, and leukocyte-vessel wall interactions. New areas of interest include (but are not limited to) developmental biology of the vasculature, intracellular trafficking, cytoskeletal organization, and transgenic models of vascular disease.

Generous start-up support and a highly competitive salary and fringe benefits will be provided. The Lerner Research Institute (website: <http://www.ri.ccf.org/ri/>) is composed of about 100 independent Investigators and 800 employees, and has a long-standing commitment to excellence in basic and applied biomedical research with an annual budget in excess of \$80 million.

Send curriculum vitae and names of three references to: **Dr. Paul E. DiCorleto, Chair, Department of Cell Biology, NC10, The Lerner Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.**

The Cleveland Clinic Foundation is an Equal Opportunity Employer.

FACULTY POSITION IN ASTROPHYSICS YALE UNIVERSITY

The Department of Physics of Yale University is seeking candidates for a position in astrophysics at the **ASSISTANT PROFESSOR** level. Preference will be given to experimentalists in the areas of cosmology or high-energy astrophysics with an ability to formulate scientific questions and an interest in developing the instrumentation necessary to address these questions. Theorists whose interests are linked to these areas, and outstanding candidates in other areas of astrophysics will also be considered. Applicants should send their curriculum vitae before March 15, 1999, along with a description of their research and research plans, and the names and addresses of three people who can provide references to: **Professor Michael Zeller, Chair, Search Committee, Department of Physics, Yale University, P.O. Box 208121, New Haven, CT 06520-8121.** *Applications from qualified women and minority group members are especially encouraged. Yale is an Affirmative Action/Equal Opportunity Employer.*

INSTRUCTOR IN RADIOLOGY HARVARD MEDICAL SCHOOL

Applications are sought for an individual to perform functional MRI experiments in human visual cortex, including experiments on color sensitivity and neuroophthalmological cases. The ideal candidate will have an M.D., preferably supplemented by previous research experience on the topics described in this job description. Previous research on the neuroanatomy of the human visual system is also preferable. The candidate must have demonstrated the ability to perform fMRI experiments, analyse fMRI data, publish those results, and to work cooperatively in a group.

Candidates should submit a curriculum vitae and arrange for three letters of reference to:

DeeDee Correia
Massachusetts General Hospital
NMR Center, Building 149, 13th Street, Room 2301
Charlestown, MA 02129
E-mail: deedee@nmr.mgh.harvard.edu

FACULTY POSITION IN THEORETICAL PHYSICS YALE UNIVERSITY

The Physics Department of Yale University expects to have an opening at the **ASSISTANT PROFESSOR** level beginning in the fall of 1999 in the general area of theoretical high-energy particle physics. The Yale high-energy theory group conducts research on problems in quantum field theory, string theory, quantum gravity, supersymmetry, and electroweak symmetry breaking. Please send a résumé and arrange for at least three letters of reference to be sent before March 15, 1999, to: **Professor Michael Schmidt, Chair, Search Committee, Department of Physics, Yale University, Box 208120, New Haven, CT 06520-8120.** *Yale University is an Affirmative Action/Equal Opportunity Employer and encourages applications from qualified women and minority group members.*

Procter & Gamble

Opportunity for Scientists
in Drug Metabolism/Pharmacokinetics

HEALTH CARE RESEARCH

Procter & Gamble Pharmaceuticals has openings for Ph.D. scientists with training in drug metabolism and preclinical pharmacokinetics at our Miami Valley and Health Care Research Center facilities in suburban Cincinnati, Ohio.

The successful candidates will have a Ph.D. in pharmacy, biochemistry, toxicology, chemistry or related discipline, with excellent written and oral communication skills.



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agency referrals, please.

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Employer

• Drug Development Scientist (#99-5460)

As a member of the drug development team, you will participate in the evaluation of new drug candidates. Position responsibilities include the design and execution of preclinical metabolism and pharmacokinetic programs and studies to support global registration of new drug candidates. Experience with drug metabolism techniques, data analysis/interpretation, and metabolite identification/profiling are essential. Previous experience in pharmacokinetics and working in a GLP environment are highly desirable.

• Drug Discovery Scientist (#99-5461)

In drug discovery you will be a member of an interdisciplinary team involved in the discovery of new drug molecules. Position responsibilities include design and execution of in vitro drug metabolism and disposition studies, isolating and identifying metabolites. Experience with in vitro drug metabolism techniques, HPLC method development, data analysis/interpretation, and knowledge of radiochemical techniques are essential.

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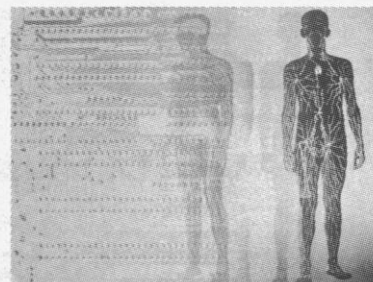
*If you meet the qualifications for either of these positions, please send a letter of introduction, resume, and list of publications via e-mail to:
doctoral.im@pg.com or by regular mail to:*

Dr. D. R. Webb
The Procter & Gamble Company
Doctoral Recruiting
Dept. GT (insert position code #)
P.O. Box 538707
Cincinnati, OH 45253-8707

Applicants must be presently authorized to work in the U.S. on a full-time basis.

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system on earth.

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at Abbott Laboratories, Diagnostic Division, in Santa Clara, California.

Senior Software Engineer

Work with a diverse Hematology library, that develops algorithms
and numerical methods used to translate raw, multi-dimensional,
cellular data into meaningful clinical results. Requires 3+ years' C/C++
experience, preferably with medical diagnostic applications. A strong
background in numerical methods a plus; experience with OO desired.
(Job Code 98-070)

Electrical Engineer

Work in the Advanced Engineering Organization to evaluate and
improve the design of electronic systems in our Hematology analyzers.
Implement design changes to improve performance, reliability, and
cost; coordinate projects with vendors and manufacturing; as well as
develop and document test protocols to verify designs. Requires a
BSEE and 2+ years' as an Electronics Design Engineer or Mechanical
Engineer. Experience with Cadence or other automated circuit design
tools in a GMP or ISO environment is a plus. (Job Code 98-087)

Scientist (Level III/IV)

Coordinate final release testing of reagents, review data, evaluate
results, design investigative protocols and oversee their execution;
implement in-process and document improvements; and oversee
product related studies. Requires a BS in a biological science or
related discipline or 7+ years' lab/industrial experience. Effective
leadership, interpersonal and conflict resolution skills, along with
excellent verbal/written communication skills, and familiarity with a
laboratory environment associated with safety practices are needed.
(Job Code 98-085)

End-user Support Specialist

Diagnose PC hardware and software problems, provide telephone
support to customers and track solutions in a database. Requires a
BSCS or equivalent, excellent communication and organization skills,
as well as expertise with Win 95, NT, Lotus software and Microsoft
software. Strong customer service skills a must. (Job Code 98-090)

Scientist (Level III/IV)

Design experimental data; test and troubleshoot instruments for
functionality; and be responsible for operation and maintenance
of lab equipment. Requires a BS in Medical Technology, Physics,
Chemistry, Biology, or Engineering, or an AS in Engineering with
additional experience. Bio-medical instrumentation experience that
includes electro-mechanical, fluid handling, and opto-electronic
systems is necessary. Knowledge of Hematology particularly as
applied to flow-cytometry desired. (Job Code 98-092)

Manager, Technical Product Development

Manage market products and the development of new reagents and
control products for new or existing systems. Develop long-term
strategy for Hematology control and cost reduction strategies for
reagent and control manufacturing, as well as work with instrument
manufacturers to improve product performance. Requires experience
in assay and control product development and validation; trouble-
shooting of reagents or control issue; and the ability to work within
timelines. Must be a strategic thinker with the ability to manage
multiple projects, possess good analytical and excellent communication
skills. (Job Code 99-004)

For these positions, please submit your resume, including job code, to:
Staffing, Abbott Laboratories Diagnostic Division, 5440 Patrick Henry
Drive, Santa Clara, CA 95054. Fax: (408) 982-4864; E-mail:
addsvhr@add.ssw.abbott.com

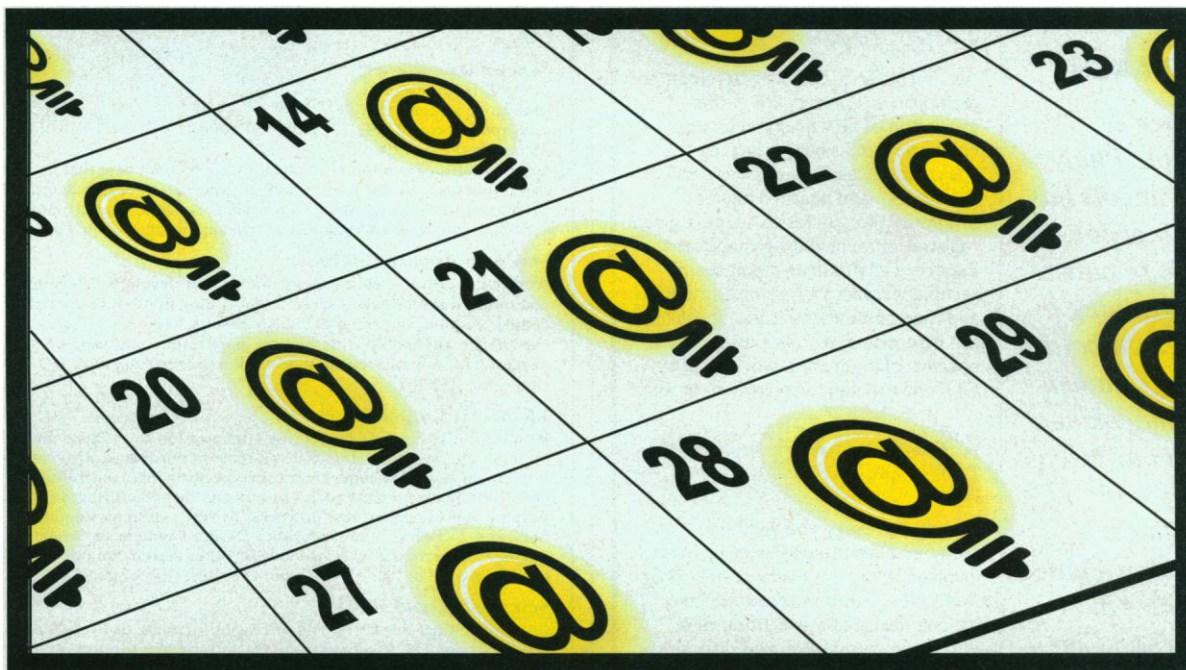
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Assistant/Associate Scientist—Allergy

BS in Molecular Biology, Biochemistry or Cell Biology and 2-4 years' experience or an MS and 0-2 years' experience. Expertise with a full range of molecular biology and biochemical techniques is essential. Also seeking experience with mammalian tissue culture, receptor binding, in vitro cellular functional assays and immunology. **Code: XHXDD9904**

Associate Scientist—Immunology

BS or MS with experience in isolation and characterization of lymphocytes, tissue culture, general immunology techniques and FACS expertise. Experience in molecular biology and biochemistry techniques including plasmid construction, DNA sequencing, ELISA and receptor binding assays is a plus. **Code: XHXDD8200**

Assistant Scientist/Scientist—Antibacterial

BS or MS and 0-8 years' experience in biochemistry, microbiology, bacterial genetics, or molecular biology. Experience in assay development or high throughput a plus. **Code: XHXDD9922**

Assistant Scientist/Scientist—Antifungal

BS or MS and 0-3 years' experience in molecular biology or biochemistry. Experience in microbial or fungal genetics, assay development, or high throughput is a plus. **Code: XHXDD9851**

Assistant Scientist/Scientist

Antibacterial/Antifungal Drug Evaluation

MS and 1-2 years' experience or BS and 2-4 years' experience in sterile technique, growing microorganisms and in vitro testing (e.g. MICs). Knowledge of computer applications and molecular biology techniques is an asset.

Code: XHXDD1741

Senior/Principal Scientist, Section Leader **Antifungal**

Requires outstanding record of achievement within biochemistry; experience with optical and/or radioligand binding assay methods is a plus. Sr./Principal applicants must possess 2-8 years' experience in biochemistry. Section Leader position requires a PhD and 8-10 years' experience including demonstrated leadership skills. **Code: XHXDD9850**

Postdoctoral Research Assistant—Antifungal

PhD (recent) and expertise working in bacterial or fungal systems.

Code: XHXTM98344

Postdoctoral Research Assistant **Microbial Genetics**

PhD in Molecular Biology or related discipline with expertise in microbial genetics. Experience in the molecular biology of actinomycetes, secondary metabolite production and cloning of biosynthetic pathways desired.

Code: XHXTM98298

Postdoctoral Research Assistants—Genomics

PhD and experience in molecular biological techniques such as cDNA cloning, PCR and automated DNA sequencing, mammalian cell culture and protein biochemistry. **Code: XHXDDCNS1**

PhD and good working knowledge of current molecular biological techniques, including cloning and characterization of G-protein coupled receptors.

Code: XHXDDCNS2

Principal Scientist—Genomics

PhD and 3-5 years' postdoctoral experience. A strong background in protein biochemical techniques as well as experience in G-protein coupled receptor biology and basic molecular biological techniques is essential.

Code: XHXDD8197

Associate Scientist—Genomics

MS in Molecular Biology or Biochemistry and work experience using standard biochemical and molecular techniques such as gene cloning and sequencing and/or protein purification. **Code: XHXDD8196**

Scientist—CNS Pharmacology

BS/MS in Biology, Biochemistry, Molecular Biology, or related discipline and 4-8 years' relevant experience including radioligand binding assays, cell culture including transfection protocols and G-protein mediated signal transduction assays. Molecular Biology experience is preferred. **Code: XHXDD8172**

Schering-Plough Research Institute is committed to the scientists who are responsible for our success. We offer an excellent compensation package that includes a competitive salary, a cash incentive bonus program, comprehensive benefits, profit sharing and 401(k). Comprehensive benefits include: group insurance and retirement programs, flexible work arrangements, educational assistance, and health and wellness programs.

For prompt, confidential consideration, we invite you to forward a resume which **MUST** include the job code to: **Human Resources, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539**. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.

For additional information, visit our web site at:

www.sp-research.com



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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, forests, lakes, and trails are all within walking distance. If you're looking for a more natural environment, this could be the opportunity you've been searching for.

DATABASE USER SUPPORT: BIOLOGISTS

Professional positions are available in the expanding Bioinformatics Programs at The Jackson Laboratory working with the Mouse Genome Database and Tumor Biology Database. Successful candidates will be primarily responsible for supporting the scientific community by assisting with biological queries, providing demonstrations and instruction in database use, and interacting with research laboratories to facilitate electronic data submissions. In addition, they will participate in developing promotional and training materials and will participate in determining database content and display concepts. It is expected that these individuals will develop excellent familiarity with the biological databases maintained at The Jackson Laboratory and will be facile with other online database resources to aid biologists in searching for and analyzing information. Applicants should have demonstrated people skills and good organizational abilities. M.S. or Ph.D. in genetics, cellular or molecular biology is required. Knowledge of mammalian systems and experience in genomics a plus.

Qualified candidates should send resume to:

The Jackson Laboratory, Attn: Harold R. Wheeler, Employment Manager,
600 Main St., Bar Harbor, ME 04609, tel: 207-288-6100, jobs@jax.org
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<http://www.jax.org>

Human Genome Sciences, Inc. is a company with the mission to develop products to predict, prevent, detect, treat, and cure disease based on technology derived from its leadership position in the discovery and understanding of human, microbial, and plant genes. We currently have a position available for

PROTEIN DEVELOPMENT SCIENTISTS

Purification: Requires a Ph.D. in protein chemistry, biochemistry or related disciplines with expertise in recombinant protein purification from bacterial, mammalian and/or insect cells. Industrial experience and familiarity with large scale purification are preferred. **RG2/12**

Expression: Requires a Ph.D. in Biological Science with 1-3 years Postdoctoral experience in recombinant protein expression/purification and general Mol Biol skills. **TC2/12**

Both positions require strong communication skills and the ability to work independently or as part of a team.

HGS encourages the pursuit of professional excellence and offers a competitive benefits package, including educational reimbursement, subsidized health club membership, and a 401(k) with employer match. Look for us on the Internet at www.hgsi.com for additional information. For immediate consideration, please send/fax your resume to

Human Resources Department, Human Genome Sciences, Inc., Job Code #, 9410 Key West Avenue, Rockville, MD 20850; FAX: (301)

309-1845. Our preferred method for receiving resumes is via our Web page or via e-mail. EOE, M/F/D/V.



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Agricultural Research Service
United States Department of Agriculture

The USDA, Agricultural Research Service, National Program Staff, in Beltsville, Maryland is seeking a National Program Leader for Animal Production, GS-487-14/15. Salary is commensurate with experience (GS-14: \$68,570 - \$89,142 per year, GS-15: \$80,658 - \$104,851 per year). **Candidates must be U.S. citizens.** The position is responsible for planning, leading, coordinating and implementing agricultural research programs relating to germplasm improvement and preservation, animal reproduction including gamete biology, molecular biology or physiology, and animal biotechnology. 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 vacancy announcement by calling (301) 504-1484 or by printing it from the internet at <http://www.ars.usda.gov>. The vacancy announcement number for this position is ARS-S9E-9010A. **This announcement closes 03/15/99.** USDA/ARS is an equal opportunity employer and provider.

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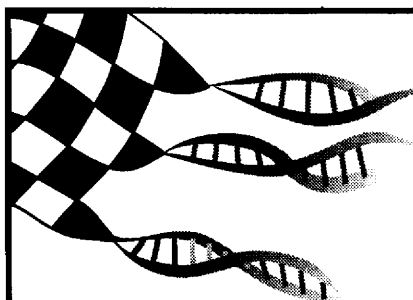
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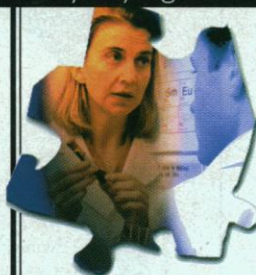
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This position requires a Ph.D./M.D. in Biochemistry, Pharmacology, Molecular Biology or other Biological Science, combined with ten or more years in a leadership role in Oncology drug discovery research with a biotechnology or pharmaceutical company. A proven record of achievement in successfully managing drug discovery projects and departments, and experience in strategic drug discovery planning and portfolio design is essential.

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Axys Pharmaceuticals, HR Department, Attn: Job# N99-002-SCI,
180 Kimball Way, South San Francisco, CA 94080
email: human_resources@axyspharm.com.

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You will be responsible for performing directed research on anti-infective drugs. Candidates must possess a Ph.D. or extensive experience. Hands-on experience studying inhibitors of microbial macromolecular synthesis and assays for antibiotics, including MIC, MBC, Time-kill, and PAE is desired. Peripheral skills including protein purification or in molecular biology a plus. (Job Code 99-009)

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You will be responsible for the development & implementation of relevant in vitro assays involving a range of therapeutic targets based on receptor interactions and/or ion channels. Candidates must possess a Ph.D. in biochemistry or related field and 4+ years of relevant experience. (Job Code 99-010)

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Candidates must possess a BS/MS in a related discipline and the ability to excel in a team-oriented environment. (Job Code 99-011)

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Please forward your resume with references and cover letter to:

Advanced Medicine, HR Dept.,
(Attn: Job Code), 280 Utah Avenue,
South San Francisco, CA 94080;
fax: (650) 827-8690;
email: career@advmedicine.com. EOE

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nature Structural biology

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Please submit a CV, a short 800-1000 word News and Views-style article on an exciting, current and newsworthy discovery in structural biology and a short cover letter explaining your interest in the position to:

The Editor
Nature Structural Biology
345 Park Avenue South, 10th Floor
New York, NY 10010-1707
Fax: 212 679 0735
e-mail: nsb@natureny.com

The closing date for applications is
March 15.



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Senior Science Communicator (Senior Editor)

Vanderbilt University's Media Relations Division is searching for a creative, experienced science communicator for the new office of Science and Research Communications. The Senior Editor will play a key role in developing an innovative approach to science, research and engineering communications that integrates a variety of public affairs and academic disciplines. The job will involve interacting with deans, department heads and faculty to identify and develop stories about new science and technology, advising researchers on communications strategies, and working with the media on science-related stories. The Senior Editor will develop, and write for University publications, web sites, TV and radio programs, and the external media, and will serve as the science editor of Vanderbilt Magazine. The opportunity to contribute to a new undergraduate program in science communication is also available.

QUALIFICATIONS: Bachelor's degree in a field of science and a minimum of 5 years of experience in reporting or communicating science to the public. Master's degree or higher in science and/or journalism is highly desirable. Salary is commensurate with experience, with excellent benefits in an entrepreneurial atmosphere. Send resume and three writing samples to J.A. Matthews, Vanderbilt University, Recruitment & Staffing, Post Office Box 7700, Station B, Nashville, TN 37235. Vanderbilt University is an Affirmative Action/Equal Opportunity Employer.



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Reaching around the globe, ICN Pharmaceuticals, Inc. (NYSE: ICN) brings together 17,000 people in 20 countries. Our employees seek researched-based solutions to human ailments, market our portfolio of pharmaceutical products, and aspire to global corporate leadership and citizenry. ICN is one of the world's fastest growing pharmaceutical companies. We seek candidates for the following opportunities in Costa Mesa, unless otherwise indicated:

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Will establish ICN's worldwide pharmaceutical research development program from discovery through synthesis, clinical trials and registration. Additionally, will coordinate and develop relationships with other scientific discovery organizations.

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- VP, WORLDWIDE CONSUMER HEALTHCARE/OTC
- DIRECTOR, SALES AND MARKETING USA DERMATOLOGY
- MANUFACTURING AND INVENTORY SYSTEMS MANAGER
- SENIOR FINANCIAL/ACCOUNTING ANALYST (CPA REQUIRED)
- EXPERIENCED PHARMA MARKETING PROJECT MANAGERS/DIRECTORS
- EU REGULATORY DIRECTOR (ENGLAND)
- REGULATORY MANAGER
- DIRECTOR, GLOBAL BUSINESS INFORMATION (ENGLAND)
- DIRECTOR, SALES TRAINING AND MGMT DEV (ENGLAND)

Please send your scannable resume, introductory cover letter, salary history and requirements to: Joe S. Disbennett, Corporate Director of Human Resources, ICN Pharmaceuticals - World Headquarters, 3300 Hyland Avenue, BOX SCIM2129, Costa Mesa, California 92626.



ICN Company information can be found at our website: www.ICNPharm.com

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Affymax is an innovative company dedicated to the development of new technologies to revolutionize the process of drug discovery. Our growth has created several positions at our Palo Alto and Santa Clara, CA facilities.

Head of Scientific IT

Lead a chemical information management and computation modeling group responsible for research computing throughout Affymax. Responsibilities also include being a liaison with our parent company, Glaxo-Wellcome. Prefer a Ph.D. in Biological Life Science or Chemistry and 5+ years of experience in the biotech/scientific IT industry. A strong background in software engineering and computer programming is highly desirable. Proficiency in Unix, Win-NT, & Oracle is a must. **Job Code: SMU001**

Postdoc

Conduct independent research on novel linkers for use in solid phase organic synthesis, with a particular emphasis on photolabile linkers. The position will include the design, synthesis, and evaluation of linkers, as well as exploration of new polymer support derivatization reactions and investigations into novel polymers. **Job Code: CHO001**

Staff Scientist Chemist

Development and implementation of novel oligonucleotide synthesis and coupling chemistries, including 5' - 3' protection strategies. May require synthesis of non-standard intermediates for oligonucleotide synthesis. Also requires development of new methods of coupling oligos to surfaces and attaching fluorescent dye molecules to oligos. Experience in oligonucleotide chemistry is preferred; background in synthetic chemistry and standard chemical analytical techniques is required. **Job Code: KJ003**

Senior Scientist

You will spearhead the development of a microbial functional/chemical genomics program for characterizing compound classes that result from the application of our screening methodologies (AAC 42:1447). You will utilize classical and molecular genetic techniques to understand the mechanism of action of these new compounds and their effect on bacterial metabolism. Experience with Gram positive organisms, bacterial metabolism or combinatorial chemistry is desirable. **Job Code: MN002**

Research Associate

The successful candidate will assist in the design, execution, and analysis of experiments related to novel, high-throughput polymorphism identification and genotyping methodologies. Candidates should have a broad knowledge of standard Molecular Biology techniques including DNA cloning, gel electrophoresis and filter hybridization of nucleic acids, and PCR amplification. **Job Code: MSH001**

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UNIVERSITY OF LOUISVILLE Chair, Department of Ophthalmology and Visual Sciences

The University of Louisville School of Medicine invites nominations and applications for the position of Professor and Chair of the Department of Ophthalmology and Visual Sciences.

Candidates who have an outstanding record of contributions to the field of Ophthalmology are encouraged to apply. Demonstrated abilities include leadership and management, a strong commitment to residency education, and a history of extramural funding in clinical and/or basic research.

The Department of Ophthalmology and Visual Sciences is housed in the Kentucky Lions Eye Center which has been expanded recently to include three new floors of state-of-the-art research and clinical facilities. The department has grown in the last decade and is in the top quartile of funding from the National Eye Institute for research programs on retinal/RPE transplantation, transgenic animal models of retinal degeneration, glaucoma, cataracts, ocular surface and inflammation. The department provides care in all the specialty areas of ophthalmology including cornea and external disease, glaucoma, oculoplastics, pediatric ophthalmology and retinal and vitreal disease. With a multimillion dollar commitment from the state, U of L has substantial financial resources to attract an ophthalmologist with a record of high achievement and a desire to build a strong clinical program.

The position will remain open until a suitable candidate is identified. Applications are requested by April 15, 1999, and should include a letter of interest, a curriculum vita, and four references. Applications and nominations should be sent to: **Larry Cook, M.D., Professor and Chairman, Department of Pediatrics, Chairman, Ophthalmology Chair Search Committee, c/o Muffin M. Fleming, Office of the Vice President for Health Affairs, University of Louisville, Abell Administration Center, 323 East Chestnut St., Louisville, KY 40202-3866.**

The University is an equal employment, affirmative action, Americans with Disabilities Act employer.

EXECUTIVE DIRECTOR OFFICE OF TECHNOLOGY & SPECIAL PROJECTS University of Missouri – Columbia

The University of Missouri – Columbia (MU) is seeking an innovative, energetic, and experienced individual to serve as Executive Director of its newly created Office of Technology & Special Projects (OTSP). The Executive Director will report to the Vice Provost for Research at MU. The Director will also have some responsibilities on the four-campus University of Missouri system level and will work closely with a Steering Committee composed of the Vice President for Academic Affairs and the chief research officers of the four campuses in fulfilling these tasks. The Executive Director of OTSP is expected to interact closely with faculty as well as community, business, and state government leaders throughout Missouri in developing the technologies generated by our faculty and students. The OTSP Director and staff will (1) assess the commercial feasibility of the university's intellectual properties, (2) assist in the university's patents and licensing operations, (3) coordinate the development of business plans for new spin-off companies, and (4) help faculty design proposals and management teams to compete for large projects, national centers, and program project grants.

We are seeking an individual with a Ph.D. or equivalent experience in a high technology area, especially biological, biomedical, or engineering technologies. Ideally, the Executive Director should have experience in both university and industry environments. This individual should have an established record of success in technology transfer, intellectual property management, and university/industry contracting.

Applications should be sent to **Dr. Jack Burns, Vice Provost for Research, Office of Research, 205 Jesse Hall, University of Missouri, Columbia, MO 65211.** For further information about MU research, see our Web page at <http://www.research.missouri.edu> or contact Dr. Burns at burnsj@missouri.edu, 573-882-9500. The University of Missouri is an Affirmative Action/ADA Institution.

POSITIONS OPEN

TENURE-TRACK POSITION MOLECULAR EPIDEMIOLOGY UNIVERSITY OF MICHIGAN Department of Epidemiology School of Public Health

The Department of Epidemiology of the University of Michigan School of Public Health invites applications for a tenure-track position in molecular epidemiology at the ASSISTANT PROFESSOR level. The Department has a long history of integrating laboratory methods with epidemiologic studies and offers graduate training in hospital and molecular epidemiology.

Applicants should hold a Doctoral degree with relevant epidemiology expertise. Appointment level and salary will be commensurate with qualifications and experience.

Applications will be accepted until March 1, 1999. To apply, send curriculum vitae, three letters of recommendation, and a letter of application including a statement of research interests to:

Mark L. Wilson, Sc.D.
Chair, Search Committee
Department of Epidemiology
University of Michigan
109 South Observatory Street
Ann Arbor, MI 48109-2029
E-mail: wilsonml@umich.edu

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

FACULTY POSITION IN NEUROSCIENCE

The Department of Biological Sciences invites applications for one senior position (PROFESSOR level) in neuroscience. We are seeking an outstanding individual with excellent track records in research and leadership in teaching. Applicants should have relevant research experience in molecular, cellular, or developmental neuroscience.

Salary will depend on qualifications and experience, but will be around \$120,000 per year. Fringe benefits including medical benefits and assistance in housing will be provided where applicable. Initial appointment will normally be on a three-year contract and reappointment will be subject to mutual agreement.

Applications should be sent with a curriculum vitae to: Dr. Jongkyeong Chung, Chairman of Search Committee, Department of Biological Sciences, Korea Advanced Institute of Science and Technology, Taejeon, 305-701 Korea. FAX: 82-42-869-2610; e-mail: jchung@sorak.kaist.ac.kr.

Minority and international candidates are urged to apply.

ACADEMIC INVESTIGATORS TWO POSITIONS

The Division of Endocrinology and Metabolism, University of Virginia, School of Medicine, is seeking two tenure-track Academic Investigators—Ph.D., M.D. at the rank of ASSISTANT or ASSOCIATE PROFESSOR. The successful candidates should have a strong research interest in the cardiovascular complications of diabetes and demonstrate a strong potential to develop and maintain an independent laboratory-based research program. Excellent laboratory space and start-up packages are available. Please send updated curriculum vitae and names of three references to: Jerry L. Nadler, M.D., Search Committee Chair, Department of Internal Medicine, Box 466, University of Virginia Health Sciences Center, Charlottesville, VA 22908. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR or POSTDOCTORAL-LEVEL RESEARCH position in herpes simplex virus vaccine development and immunology. NIH-funded project investigating the immunology of a successful therapeutic vaccine against ocular HSV-1 recurrence in a rabbit model. Studies are aimed at determining and understanding mucosal therapeutic immune responses and enhancing vaccine efficacy. Strong background in immunology and/or vaccine development essential. Additional experience in viral immunology and mucosal immunity is highly desirable. Send curriculum vitae, names, addresses, and telephone numbers of three references to: Dr. Steven L. Wechsler, Virology Research Laboratory, Davis Research Building Room 5069, Cedars-Sinai Medical Center Research Institute affiliated with/UCLA School of Medicine, 8700 Beverly Boulevard, Los Angeles, CA 90048-1869. E-mail: wechsler@csmc.edu.

POSITIONS OPEN



University of Connecticut Health Center

TENURE-TRACK FACULTY POSITIONS IN GENETICS AND DEVELOPMENTAL BIOLOGY DROSOPHILA GENETICS

The newly created Department of Genetics and Developmental Biology at the University of Connecticut School of Medicine is seeking highly qualified individuals with an outstanding background in the genetics and molecular biology of *Drosophila*. Areas of interest include, but are not limited to, morphogenesis and patterning; genetic control of cell growth and differentiation; nuclear structure and function; DNA replication, recombination, and repair; mechanisms of gene regulation.

Applications are invited for positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Departmental faculty will enjoy superb resources including generous start-up funds and space in a new research building. There are state-of-the-art core facilities for mouse transgenics and ES cell manipulation, nucleic acid sequencing, flow cytometry, confocal microscopy, and fluorescence imaging. Faculty will be expected to establish independent and innovative research programs that will attract extramural funding and to actively contribute to a rich scientific environment.

Candidates should apply by submitting a curriculum vitae and names of three references by March 31, 1999, to:

Marc Lalonde, Ph.D.
Professor and Chairman
Department of Genetics and Developmental Biology
The University of Connecticut Health Center
School of Medicine
263 Farmington Avenue
Farmington, CT 06030-1231

FACULTY POSITION DEPARTMENT OF BIOLOGICAL SCIENCES WELLESLEY COLLEGE

The Department of Biological Sciences at Wellesley College, a liberal arts institution located 10 miles west of Boston with a student body of 2,200, invites applications for a one-year sabbatical leave replacement position beginning fall 1999. This position will be at the VISITING ASSISTANT PROFESSOR level.

Courses to be taught could include ecology, marine biology with laboratory, advanced topics in ecology with laboratory, and introductory organismal biology. A Ph.D. and commitment to the teaching of undergraduates are required.

Review of completed applications will begin March 1, 1999. Applicants should send their curriculum vitae, undergraduate and graduate transcripts, a statement of teaching philosophy and experience, two letters of recommendation, and the name of one additional reference to: Chair, Faculty Search Committee, Department of Biological Sciences, Wellesley College, Wellesley, MA 02181. *Wellesley College is an Equal Opportunity/Affirmative Action Employer.*

The Department of Biostatistics at the Harvard School of Public Health announces the availability of a new position at the FULL PROFESSOR level. The successful candidate should have an outstanding record of methodological research with an international reputation and demonstrated leadership in addressing important public health problems. The candidate should provide evidence of commitment to, and success in, teaching and supervision of Doctoral students and Postdoctoral Fellows. Responsibilities will include teaching, student supervision, and scientific leadership in methodological research and applications to public health.

Send curriculum vitae, including bibliography to the address below:

Senior Search Committee for Biostatistics Faculty
Department of Biostatistics
Harvard School of Public Health
655 Huntington Avenue, 4th Floor
Boston, MA 02115

Applications from minority and female candidates are especially encouraged.

POSITIONS OPEN

LAWRENCE CHAIR IN EPITAXY ARIZONA STATE UNIVERSITY

Arizona State University is seeking applicants for the recently endowed Lawrence Chair in Epitaxy, established with an endowment from Lamonte H. Lawrence of Lawrence Semiconductor Research Laboratory. In addition to establishing and maintaining a world-class interdisciplinary research program in the general area of epitaxial research, the Lawrence Chair will be expected to develop related educational programs. Applicants must have a Ph.D. or equivalent degree in engineering or physical sciences, a distinguished publication record, and a well-established record of externally funded research. Strong ties to industry are desirable. Possible areas of expertise of the applicant could include the physics and chemistry of growth, low-dimensional solids, monitoring of growth, synthesis of novel materials, and the science and technology of growth. Experience in semiconductor thin films is preferred, although applicants in other closely related areas may be considered. The Lawrence Chair is likely to be appointed as a tenured FULL PROFESSOR, with teaching responsibilities in the Department most closely linked to his/her area of interest.

Review of applications will commence on 1 April 1999 or the first of each month thereafter until the position is filled. Applicants must provide the following: a current curriculum vitae, a statement of current and future plans for research and teaching (two pages maximum), and the names, addresses, and telephone numbers of four references. These should be sent to: Professor David J. Smith, Lawrence Chair Search Committee, Center for Solid State Science, Arizona State University, Tempe, AZ 85287-1704.

Further details about the Center for Solid State Science, related Departments, and various multidisciplinary research facilities on campus can be found at website: <http://www.asu.edu/class/csss>.

Arizona State University is an Equal Opportunity Employer.

ASSISTANT PROFESSOR MOLECULAR PHYSIOLOGY

The Department of Physiology at the University of Minnesota invites applications for a tenure-track Assistant Professor position in the field of molecular physiology. We encourage applications from individuals who employ molecular approaches, such as gene targeting and transgenic techniques, in studying fundamental mechanisms of cell function, including calcium signaling, second messenger systems, receptor physiology, ion channels, and ion transport. The successful applicant will be expected to conduct an innovative, independent, and extramurally funded research program as well as to participate in teaching of undergraduate, graduate, and/or professional students. Applicants must have a Ph.D., M.D., or equivalent degree, with a minimum of two years of postdoctoral training. We offer competitive salary commensurate with experience and a generous start-up package. Last date for receipt of applications is 15 April 1999. Send curriculum vitae a description of research interest and three letters of reference to:

Chair, Search Committee
Department of Physiology
6-255 Millard Hall
435 Delaware Street S.E.
University of Minnesota
Minneapolis, MN 55455

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

RESEARCH ASSISTANT PROFESSOR

The Department of Physiology and the Institute for Environmental Medicine of the University of Pennsylvania Health System are seeking an individual to perform research related to pathophysiology of lung ischemic injury. Candidate will develop an independent program through interactions with an established research group. Computer expertise required and will supervise a data processing and computer core. Salary commensurate with experience. Send curriculum vitae, a statement of research interest, details of current grant support, and the addresses of three references to: Director, Institute for Environmental Medicine, One John Morgan Building, 3620 Hamilton Walk, Philadelphia, PA 19104-6068. E-mail: lbg@mail.med.upenn.edu. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*



DIRECTOR OF THE JOINT INSTITUTE FOR NEUTRON SCIENCES

The University of Tennessee–Knoxville (UTK) and Oak Ridge National Laboratory (ORNL) invite applications for the position of director of the Joint Institute for Neutron Sciences (JINS). The director will lead the Joint Institute in its roles as the intellectual center for program development in the neutron sciences and as a one-stop user interface for individuals making use of the neutron sciences facilities at ORNL. It is expected that up to 2000 users, including students, will pass through JINS annually. JINS will have a vigorous visiting scientists' program; will train new users of neutron scattering techniques; and will conduct active programs of outreach to universities and industry.

Established in February 1998 by UTK, ORNL, and the U.S. Department of Energy, JINS will be housed in a building funded by the state of Tennessee to be constructed near the proposed Spallation Neutron Source (SNS) and the existing High Flux Isotope Reactor (HFIR) at ORNL. The facility will provide offices, housing, conference facilities, and services such as badging and safety orientations.

Candidates for this position should have achieved international recognition for accomplishment in a research program having as a major component the use of neutron scattering. The successful candidate will also have demonstrated a broad appreciation for and knowledge of the many applications of the neutron sciences to the study of hard and soft materials. S/he should also possess proven qualities of leadership; evidence of good fiscal management skills; the ability to recruit and retain talented individuals; and the ability to develop and acquire funding for a range of neutron sciences' initiatives. Familiarity with academic/industrial collaborations and with governmental liaison work is also desirable.

The director's distribution of effort between UTK and ORNL is negotiable. It may be 50/50, but it is expected that some candidates may prefer the majority of their effort to be based at either UTK or ORNL. There will be considerable flexibility with respect to the director's departmental home at UTK and divisional home at ORNL.

Submitting applications and nominations: Letters of application or nomination describing the candidate's qualifications should be directed to the chair of the search committee, at the address given below. Letters of application should be accompanied by curriculum vitae and the names and contact information for at least three references. Applications and nominations will be reviewed beginning on April 5, 1999, but will be accepted until the position is filled.

Dr. Thomas Callcott and Dr. James B. Roberto
Co-Chairs, JINS Director Search
101 South College
University of Tennessee
Knoxville, TN 37996-1508
e-mail: tcallcott@utk.edu

*The University of Tennessee–Knoxville is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA Employer.
ORNL, a multipurpose research facility managed by Lockheed Martin Energy Research Corp for the U.S. Department of Energy, is an equal opportunity employer committed to building and maintaining a diverse workforce.*



MULTIDISCIPLINARY POSITIONS IN SCIENCE AND ENGINEERING

KAIROS is a high technology company based in Santa Clara, CA, whose multidisciplinary research is aimed at developing novel instrumentation, reagents, enzymes, and methodologies in the fields of biotechnology, microscopy, medicine, and materials science. By integrating optical design and software engineering with molecular genetics, we have developed a new series of instruments for imaging pigmented and fluorescent materials. Massively parallel spectroscopy pioneered by KAIROS facilitates high throughput screening by employing innovative computer algorithms for rapid processing and concise display of hyperspectral and kinetic data.

For more information on employment opportunities in molecular and cellular biology, enzyme engineering, bacterial ID; software and instrument development, please visit: www.kairos-scientific.com

KAIROS SCIENTIFIC INC.
Bldg. 62
3350 Scott Blvd.
Santa Clara, CA 95054



Business Development Position in Genomics

LifeSpan BioSciences, a Seattle Molecular Pathology company focusing on gene expression profiling and localization in human diseases, is seeking a highly independent Ph.D. or M.D. with excellent communication and interpersonal skills and recent training in genomics. This position will involve interfacing with pharmaceutical research scientists and will involve significant travel. In addition, the opportunity exists to interface with academic scientists to identify and evaluate new technologies for in-licensing. Candidate should have training in genomics, molecular biology and/or pathology. Prior pharmaceutical research experience and/or sales experience highly desirable. Salary to be commensurate with the level of experience and qualifications.

For further information on the company, please view our website at: <http://lsbio.com>. For confidential consideration, please forward your resume and cover letter to:

Human Resources
LifeSpan BioSciences, Inc.
700 Blanchard St.
Seattle, WA 98121
FAX: 206-464-1723
e-mail: hr@lsbio.com

POSITIONS OPEN

DIRECTOR PEROMYSCUS GENETIC STOCK CENTER

Applications are invited for a tenure-track appointment as **ASSOCIATE** or **FULL PROFESSOR** in the Department of Biological Sciences at the University of South Carolina. Responsibilities of this appointment include Directorship of the *Peromyscus* Genetic Stock Center.

The Stock Center (website: <http://stkctr.biol.sc.edu/>), supported by NSF since 1985, maintains seven species and 33 mutant strains of deer mice and related species and provides them to Investigators in the United States and abroad. The Center publishes the *Peromyscus* Newsletter to a circulation of about 750, and is developing the *Peromyscus* database, *PeroBase*, also funded by NSF. In Spring 1999 the Stock Center will move into new state-of-the-art animal care facilities and research laboratories.

Applicants must possess a highly productive, externally funded research program that may be in any of a number of fields including infectious diseases, comparative mapping, molecular evolution, toxicology, population genetics, physiology, or behavior. Research experience with *Peromyscus* or other rodents, and future use of *Peromyscus* are expected. Directorship of the Stock Center provides a unique opportunity for career development of individuals interested in *Peromyscus* research. The candidate must be willing to promote the Stock Center as a national focal point for *Peromyscus* research.

Applicants should submit curriculum vitae, description of research program, and a letter of intent to: **Peromyscus Search Committee, c/o Dr. Michael J. Dewey, Department of Biological Sciences, 700 Sumter Street, University of South Carolina, Columbia, SC 29208.** The University of South Carolina is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR ENVIRONMENTAL MICROBIOLOGY

The Department of Microbiology, College of Agriculture and Life Sciences, Cornell University, invites applications for a tenure-track position in environmental microbiology. The successful applicant should have a Ph.D. in microbiology, or a closely related area, preferably at least one year of postdoctoral experience, and demonstrated research and teaching ability in environmental microbiology or microbial ecology. We are particularly interested in candidates with research experience in transformation of pollutants and application of molecular techniques to study microbial communities, but candidates studying other areas of environmental microbiology will be considered seriously and fully. Development of a strong externally funded research program is expected. The appointee is expected to teach undergraduate and graduate-level courses in environmental microbiology and microbial ecology. Cross-disciplinary and interdepartmental research and teaching will be encouraged. Occasional participation, in a general introductory microbiology course is also expected. Review of applications will begin April 1, 1999, and will continue until a successful candidate is found. Applicants should submit a letter of application, curriculum vitae, statements of current and future research and teaching interests, and arrange to have three letters of reference sent to: **W. C. Ghiorse, Chairman, Environmental Microbiologist Search Committee, Department of Microbiology, Wing Hall, Cornell University, Ithaca, NY 14853-8101.** E-mail: wcg1@cornell.edu; FAX: 607-255-3904.

ASSISTANT PROFESSOR/BIOLOGIST/ TEACHER CERTIFICATION

Tenure-track, Ph.D. for fall 1999. Research area in biology open, but should complement the departmental faculty research. Successful biology teaching experience in public middle/high school required. The candidate is expected to direct the departmental Teacher Certification Program, graduate students, and to develop a vigorous research program. Duties include a course in teaching methods in biology, coordinating clinical experience supervisors, and advising certification students. Applications considered until position filled. Send a letter of interest, curriculum vitae, brief statements of research and teaching goals, and three letters of reference to: **Dr. Patricia Vary, Chair, Department of Biological Sciences, Northern Illinois University, DeKalb, IL 60115-2861.** Website: <http://www.bios.niu.edu>; Telephone: 815-753-1753; FAX: 815-753-0461; e-mail: biojobs@niu.edu. Affirmative Action/Equal Employment Opportunity.

POSITIONS OPEN

WAYNE STATE UNIVERSITY

The Department of Occupational and Environmental Health Sciences at Wayne State University seeks applications for a tenure-track faculty position in toxicology at the rank of **ASSISTANT/ASSOCIATE PROFESSOR**. The applicant should have a Ph.D. and/or M.D. degree in biomedical sciences. All outstanding candidates will be given serious consideration, but applicants with previous teaching experience and a record of excellence in research will be given preference. An ability to sustain extramurally funded research is expected. Adequate laboratory space and competitive start-up funds will be available to the appointee. Salary and rank are commensurate with experience. Qualified candidates should send curriculum vitae, a concise description of research interests, teaching experience, and names, addresses, and telephone numbers of three references to: **Chair, Search Committee, Department of Occupational and Environmental Health Sciences, 207 Shapero Hall Annex, Wayne State University, Detroit, MI 48202.** E-mail: dbhalla@wizard.pharm.wayne.edu.

Wayne State University is an Equal Opportunity/Affirmative Action Employer. Wayne State University—people working together to provide quality service. All buildings, structures, and vehicles at WSU are smoke-free.

The Regional Bone Center at Helen Hayes Hospital is seeking to recruit a **SENIOR RESEARCH SCIENTIST** at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The incumbent will be expected to direct ongoing research projects on the mechanism of action of PTH on the skeleton using a rodent model and will oversee a biochemistry core unit. Both the project and the core unit are part of an NIH SCOR grant on osteoporosis (Program Director: **Robert Lindsay, M.D., Ph.D., F.R.C.P.**), which is now in its eleventh year of funding and has recently been refunded for a further five years. In addition to these responsibilities, the incumbent will be expected to develop a molecular biology program, which will initially focus on the molecular mechanisms of PTH action in bone.

The successful candidate will possess a Ph.D. in biology, a minimum of five years of research experience in the field of bone biology, and will have a proven track record in publishing and obtaining research support. The position is permanent and the salary is wholly provided by the Department of Health of the State of New York. The starting salary is \$71,091, increasing to a job rate of \$85,970. In addition, there is an excellent benefits and retirement package.

The Regional Bone Center offers excellent facilities and opportunities for collaboration with established Investigators in both basic and clinical research. Further details of the center can be found in the Regional Bone Center home page at website: www.helenhayeshospital.org.

Applicants should submit résumés and the names of three referees no later than March 1, 1999, to: **David Dempster, Ph.D., Director, Regional Bone Center, Helen Hayes Hospital, Route 9W, West Haverstraw, NY 10993.** Telephone: 914-786-4839; FAX: 914-786-4839; e-mail: daviddempster@mindspring.com.

EXTENSION MEDICAL ENTOMOLOGIST.

The Florida Medical Entomology Laboratory of the University of Florida invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. Responsibilities include extension services and applied research in mosquito control and other aspects of medical entomology, and development of short courses and material for public education. Further details about the position (#93560) can be found at website: www.ifas.ufl.edu/~veroweb/. The position requires an earned Ph.D. in entomology or related field with research and extension experience and strong communication skills. Candidates should submit by March 31, 1999, a formal letter of application, current curriculum vitae including publication list, and the names and addresses (including e-mail and telephone) of at least three references to: **Dr. C. C. Lord, Chair, Search and Screen Committee, FMEL, University of Florida, 200 9th Street S.E., Vero Beach, FL 32962.** Telephone: 561-778-7200; FAX: 561-778-7205; e-mail: ccl@gmv.ifas.ufl.edu. The University of Florida is an Affirmative Action/Equal Opportunity Employer and encourages women and minorities to apply.

POSITIONS OPEN

WESTERN CONNECTICUT STATE UNIVERSITY BIOLOGY

Three positions available at the **ASSISTANT PROFESSOR** level. Ph.D. required for all three. The successful candidates will have demonstrated excellence in teaching and will be seeking a career at a small, teaching-oriented university.

Microbiologist, tenure-track position. Duties: teach introductory microbiology courses for nursing and biology majors; teach electives in microbiology and related fields for upper-division undergraduate and graduate students; may include coordinating a small Medical Technology Program.

Molecular and Cell Biologist, tenure-track position. Duties: teach upper-division undergraduate and M.A.-level graduate courses in molecular and cell biology, including developmental biology; teach freshman-level biology laboratories; establish a research program on their area of specialization involving upper-division undergraduate and M.A.-level graduate students.

Plant Biologist, one-year sabbatical leave replacement for 1999–2000. Duties: teach an introductory-level general biology course for non-science majors both semesters; teach sophomore-level class for biology majors in plant morphology during fall semester and plant systematics during spring semester.

Send curriculum vitae, undergraduate and graduate transcripts, and three letters of recommendation (indicating which position/s you are applying for), by March 19, 1999, to: **Dr. Howard I. Russock, Chairperson, Biological Sciences Department, Western Connecticut State University, 181 White Street, Danbury, CT 06810.** Western is an Affirmative Action/Equal Opportunity Educator/Employer.

The College of St. Catherine in St. Paul/Minneapolis invites applications for faculty positions to begin fall 1999. With two campuses enrolling 4,300 students, the College maintains graduate and undergraduate, professional, and certificate programs. Founded by the Sisters of St. Joseph of Carondelet, St. Catherine seeks to be the world's preeminent Catholic college educating women to lead and influence. The College enjoys a long-standing reputation for academic excellence, is committed to the education of women, and was the first Roman Catholic institution with a Phi Beta Kappa chapter.

Biology/Organismal. **ASSISTANT PROFESSOR.** Rolling contract (three-year renewable). Doctoral degree and demonstrated excellence in teaching at the undergraduate level in both lecture and laboratory format required. Postdoctoral experience preferred. The successful candidate must be committed to enhancing the organismal biology component of our curriculum and providing research opportunities for undergraduates in this area. Courses to be taught include anatomy and physiology for non-majors; comparative anatomy and developmental biology for majors; and general biology.

Send curriculum vitae, transcripts, three letters of recommendation, and a statement of teaching and research interests to: **Dr. Kathleen A. Tweeken, Chair, College of St. Catherine, Department of Biology, Mail# 4259, 2004 Randolph Avenue, St. Paul, MN 55105.** Application deadline is March 1, 1999.

As an Affirmative Action/Equal Opportunity Institution, the College of St. Catherine actively seeks applications from members of ethnic and minority groups.

YALE UNIVERSITY EXPERIMENTAL CONDENSED MATTER PHYSICS

The Department of Physics invites applications for a faculty appointment at the **ASSISTANT PROFESSOR** level in the area of experimental condensed matter physics. Interested applicants should arrange to have three letters of recommendation sent independently and should provide a curriculum vitae including e-mail address and/or FAX number, a list of publications, teaching experience, and an outline of future research plans. Information about current research activities in physics and applied physics at Yale can be found at websites: www.eng.yale.edu/aphy/ and www.yale.edu/physics/home.html. Applications and supporting materials should be sent to arrive no later than March 15, 1999, to: **Professor Charles Baltay, Chair, Department of Physics, Sloane Physics Laboratory, 217 Prospect Street, P.O. Box 208120, New Haven, CT 06520-8120.** Yale is an Affirmative Action/Equal Opportunity Employer and welcomes application from qualified women and minority group members.

**NATIONAL INSTITUTES OF HEALTH
NATIONAL INSTITUTE OF MENTAL HEALTH
DIVISION OF EXTRAMURAL ACTIVITIES (DEA)**



The Division of Extramural Activities, Neuroscience and Behavioral Science Review Branch, invites applications for the position of: **Health Scientist Administrator, GS-601-13/14.**

The incumbent functions as a Scientific Review Administrator and is responsible for all aspects of planning, coordination, direction, and implementation of peer reviews of grant applications whose focus is in the area of molecular neuroscience and molecular genetics relevant to the mission of the NIMH.

Qualifications include a Ph.D. and extensive working knowledge of research in the area of molecular genetics as currently being applied to the study of neuroscience, especially emergent techniques in the manipulation of the genome of animals used as model systems. A broad knowledge base of molecular approaches to neuroscience and genetics is essential as the incumbent will be responsible for planning and coordinating the review of grant applications and contracts covering a wide spectrum of molecular and genetic techniques and approaches. This is a Civil Service position with a salary range of \$58,027 to \$89,142 per annum (1999 rate with locality pay).

Interested candidates should obtain a copy of the full text Vacancy Announcement Number MH-99-0001A for specific information and instructions. A copy is available at: <http://www.nimh.nih.gov/orm/pmb/jobs.htm> or candidates may contact Ms. Margot Darby, NIMH Personnel Management Branch, at (301) 443-9094. Applications will be accepted if postmarked by **March 26, 1999** and received within 5 working days.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

**POSTDOCTORAL POSITION
NIMH/DIRP**

The National Institute of Mental Health (NIMH) invites applications for a postdoctoral position in the newly established 3 Tesla functional neuroimaging facility. Fellowships include full salary support plus research and travel expenses for up to five years. Basic facilities include a General Electric 3 Tesla EPI capable scanner and an extensive computational infrastructure. Technical support will also be provided. Fellows are expected to have experience with and interest in one or more of the following aspects of functional MRI development: stimulus delivery and subject monitoring, pulse programming, echo planar imaging, data acquisition, rf coil development, image reconstruction methods, fMRI post processing methods, and data transfer and archiving issues. Projects aimed at increasing the utility of fMRI from a technical development perspective will be pursued. Specific projects include development of real-time fMRI methods and applications of real-time fMRI capability; development of integrated stimulus delivery, physiological monitoring, and subject feedback processing environments; development of pulse sequences to simultaneously obtain multiple types of functional contrast (BOLD, flow, volume, perfusion, diffusion, metabolism); and development of high resolution fMRI capability with multi-shot or single shot imaging. Applicants should send curriculum vitae and three letters of recommendation by **April 30, 1999**, to: Dr. Peter Bandettini, NIH/NIMH/DIRP, Bldg. 10, Rm. 4N-222, 9000 Rockville Pike, Bethesda, Maryland 20892, 301-496-3501.

The National Institute of Health is an Equal Opportunity Employer.

GLOBAL OPPORTUNITIES

CATIE

**TROPICAL AGRICULTURAL RESEARCH
AND HIGHER EDUCATION CENTER**

CATIE is a regional institution with Headquarters in Turrialba, Costa Rica, whose mission is to improve mankind's welfare by applying scientific research and graduate teaching to the development, conservation and sustainable use of the natural resources in the American Tropics. CATIE is a civil, non-profit, apolitical international association whose mandate is teaching and research on Ecological Agriculture, Agroforestry and Watersheds, Forestry and Biodiversity, Biotechnology and Environmental Socioeconomics. CATIE is a leading institution in the development of practices and technologies aimed at finding an equilibrium between production and conservation, implementing an annual budget of approximately US\$20 million, and with nearly 200 professional staff members.

CATIE is in the process of recruiting a **DIRECTOR GENERAL** for the period 2000-2004. The terms of reference for this position can be found at www.catie.ac.cr

Applicants should send: letter of application (no more than one page); Curriculum vitae (including list of publications, and presentations in international conference); two recent photographs, color and passport size; duly notarized University diplomas, and degrees, with the address and phone number of the institution where they were obtained; at least three letters of references from well known people who can attest to your scientific, and managerial experience, as well as to your character and personal attributes. These documents should be received by CATIE on or before March 5, 1999.

To apply, please send these documents to **Ms. Viviana Sánchez, Head of Human Resources, Apdo. 7170, CATIE, Turrialba, Costa Rica. Phone: (506) 556-08-11, Fax: (506) 556-27-00, E-mail: vsanchez@catie.ac.cr**

主任研究員募集

Principal Bio-Researcher

創造的研究をポリシーとするHHIがBiotechnology, Life science の分野で働く研究員を求めています。

あなたの発想が活かせる日本では唯一ユニークな研究所です。

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バイオテクノロジーで健康世界を創る

HHI 萩原健康科学研究所

HAGIWARA INSTITUTE OF HEALTH

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Tel 0790-47-1581・Fax 0790-47-1585
URL:<http://www.hih.org>

POSITIONS OPEN

ASSISTANT PROFESSOR, MAMMALIAN ANATOMIST/PHYSIOLOGIST. The Biology/Microbiology Department at South Dakota State University (SDSU) invites applicants for a tenure-track, nine-month, 100 percent Academic Programs-funded appointment with research expectations. Instructional responsibilities include mammalian anatomy, other courses as needed, and the development of upper-level undergraduate and/or graduate courses in the applicant's area of expertise. Development of a collaborative research program and pursuit of extramural funding is expected. Earned Ph.D., D.V.M., or equivalent degree in anatomy, physiology, or a closely related area, and collegiate teaching and postdoctoral research experience are required. Preference given to candidates with demonstrated effectiveness in teaching and high productivity in research particularly in the areas of gastrointestinal and/or respiratory physiology using animals compatible with SDSU facilities (e.g., farm animals, rabbits, and rodents). Extramural funding experience, the potential and willingness to develop collaborative teaching and research programs with other SDSU faculty, and effective interpersonal and communication (verbal and written) skills desired. Send letter of application, curriculum vitae, separate statements of teaching and research interests, documentation of qualifications related to the position's expectations, and have three current letters of professional reference sent to: **Dr. Mike Hildreth, Department of Biology and Microbiology, South Dakota State University, Box 2014D, Brookings, SD 57007. Telephone: 605-688-4562.** Call or write for additional information. Review of applications will start March 1, 1999, and the position will remain open until filled. Starting date is negotiable. *SDSU is an Affirmative Action/Equal Employment Opportunity Employer and encourages applications from women and minorities. ADA Accommodations.* **Telephone: 605-688-4493; TTY: 605-688-4394.**

The Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine is seeking a **NEUROSCIENTIST/PSYCHIATRIST** with outstanding skills in cellular or molecular neurobiology to develop independent research programs in these areas to enrich and complement the department's existing basic and clinical research activities. This will be a full-time academic appointment at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The successful candidate will be responsible for developing a research program in the area of molecular or cellular neurobiology of relevance to psychiatric disease.

Additionally the individual will be expected to take an active part in teaching of Stanford medical students and psychiatry Residents. Finally, the individual in this position will provide direct patient care, and patient and staff education. Applicants must have demonstrated expertise in relevant clinical training, teaching, and/or research publications. Applicants must hold an M.D. or equivalent degree, and have at least two years of formal postdoctoral research experience. Candidates holding an M.D. must be Board-eligible or Board-certified in psychiatry, and either hold or be eligible for California medical licensure. Salary and rank will depend upon qualifications. Applicants should forward a curriculum vitae and the names of five referees to: **Emmanuel Mignot, M.D., Ph.D., Chairman of the Search Committee, c/o Department of Psychiatry, Stanford Medical Center, Stanford, CA 94305-5485.** *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

The Department of Biochemistry at Baylor College of Medicine (BCM) invites applications for one or two **TENURE-TRACK** or **MID-LEVEL FACULTY POSITIONS** in X-ray crystallography and computational biology/biophysics. This heavily research-oriented department is seeking outstanding scientists who are committed to establishing excellent research programs in an expanding structural biophysics group. BCM provides a unique and interactive community of researchers with strengths in structural, molecular, and cellular biology, in molecular genetics, and in molecular medicine. Applicants should send a curriculum vitae, a research plan, and three letters of recommendation to: **Professor Florante A. Quiocho, c/o Ms. Mary Jane Perez, Faculty Search Committee, Department of Biochemistry, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030-3498 USA.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

POSITIONS OPEN

TENURE/TENURE-TRACK POSITION

The Oral and Pharyngeal Cancer Branch of the National Institute of Dental and Craniofacial Research (NIDCR) is conducting a national search for a tenure-track or tenured scientist in the area of genetic approaches to carcinogenesis. The Branch is focused on understanding the pathogenesis of oral and pharyngeal cancer and translating this information into improved diagnosis, treatment, and prevention. The successful candidate will establish a program in application of genetic approaches to tumorigenesis and metastasis including novel strategies to study normal and malignant cell and tissue function including conventional and conditional knockouts, and transgenics. The opportunity exists to fill this position either in the NIH Tenure Track Program or as a NIH tenured Senior Investigator.

Under the NIH Tenure Track Program, the position would be equivalent to the Assistant Professor level, and the selectee would be given up to six years to demonstrate his/her creativity and productivity as an independent scientist. Conversion to tenure would be subject to rigorous scientific review and endorsement by the NIDCR and NIH scientific leadership. Alternatively the position may be filled with a tenured Senior Investigator, equivalent to the Associate or Full Professor level. A variety of employment mechanisms are available. Salary is commensurate with qualifications and experience. Applicants must have a Ph.D., M.D., D.D.S.-D.M.D. or equivalent with research experience and/or training in genetic approaches to carcinogenesis.

Applicants may apply by submitting the following materials: a curriculum vitae, bibliography, and a brief statement of research objectives. Applicants should arrange for three letters of recommendation to be sent directly to Ms. Cohen.

Further information about the position and qualification requirements, including knowledge, skills, and abilities required, may be obtained from: **Ms. Esther Cohen, Personnel Management Specialist, National Institute of Dental and Craniofacial Research, NIH, 31 Center Drive, MSC2290, Room 2C39, Bethesda, MD 20892-2290. Telephone: 301-496-6971.**

Application materials must be postmarked and sent to: **Ms. Cohen** by the closing date of March 12, 1999. The opening date is February 12, 1999. *NIH is an Equal Opportunity Employer.*

CLINICIAN INVESTIGATOR

The Division of Endocrinology and Metabolism, University of Virginia, School of Medicine, is seeking a full-time Clinician Investigator at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**, tenure-track to complement its established research, teaching, and clinical programs. The faculty rank and salary will be consistent with previous accomplishments. Applicants should show strong potential to develop and maintain an independent research program related to the causes or complications of diabetes mellitus. The candidate should also demonstrate good clinical skills in endocrinology and metabolism. Board certification/eligibility in endocrinology and metabolism is required. Excellent laboratory space and start-up packages are available. Please send updated curriculum vitae and names of three references to: **Jerry L. Nadler, M.D., Search Committee, Chair, Department of Internal Medicine, Box 466, University of Virginia Health Sciences Center, Charlottesville, VA 22908.** *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

CARL T. HAYDEN VA MEDICAL CENTER PHOENIX, ARIZONA

Ph.D./Basic Scientist. **ASSISTANT/ASSOCIATE PROFESSOR** level. Salaried position available in research program in vascular biology and diabetes at Phoenix VA Medical Center (affiliated with University of Arizona College of Medicine). Extensive experience in areas of lipoprotein metabolism and cellular/molecular biology of atherosclerosis and diabetes desired. Although collaborative research will be emphasized, candidate will be encouraged to seek and apply for research grants. Competitive salary, excellent benefits. Protected time for career development. *U.S. citizenship required.* Inquiries and curriculum vitae to: **Peter Reaven, M.D., Department of Endocrinology, Carl T. Hayden VA Medical Center, 650 East Indian School Road, Phoenix, AZ 85012. Telephone: 602-200-6059; FAX: 602-200-6004; e-mail: peter.reaven@mcd.va.gov.** *An Equal Opportunity Employer.*

POSITIONS OPEN

CANCER RADIOBIOLOGIST

The Department of Human Oncology (DHO), University of Wisconsin Medical School, is searching for a Cancer Radiobiologist to initiate an independent, innovative research laboratory with a focus on ionizing radiation-related interactions. This is a tenured faculty position at the **ASSOCIATE** or **FULL PROFESSOR** level. The desired candidate will hold a Ph.D. and have research interests broadly related to cellular and molecular responses to radiation or other damaging agents. This could include but need not be limited to cellular sensitivity, molecular response to damage, cell cycle control, and oxidative stress. DHO faculty members are also members of the University of Wisconsin Comprehensive Cancer Center, which provides exceptional opportunities for translation of laboratory science into clinical trials. In addition to research and teaching, this position also involves participation in graduate student and postdoctoral training programs.

The Department of Human Oncology is an interdisciplinary department of the Medical School of the University of Wisconsin with the mission of teaching, research, and service directed toward prevention, detection, diagnosis, and treatment of human malignant diseases. The DHO is a "bridging" department, which fosters excellence in basic, translational, and clinical research, housing 23 faculty members including six basic scientists, 12 Physicians (four of whom also have laboratory research programs), and five Radiation Physicists.

Interested individuals should submit a letter of interest and curriculum vitae to:

**Minesh P. Mehta, M.D.
Associate Professor and Interim Chair
Department of Human Oncology
University of Wisconsin Medical School
K4/310 Clinical Science Center
600 Highland Avenue
Madison, WI 53792**

The University of Wisconsin is an Equal Opportunity Employer, and encourages applications from women and minorities.

The Department of Microbiology and Immunology at the University of Oklahoma Health Sciences Center invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the discipline of viral immunology. Qualifications include a Ph.D. degree and postdoctoral training. The successful candidate will be expected to develop an extramurally funded research program and participate in team-taught medical, dental, and graduate courses in the areas of virology and immunology. The Department consists of 15 full-time faculty and maintains a multimillion-dollar research budget generated from more than 40 extramural grants and contracts. An outstanding training program is in place that supports 14 Postdoctoral Trainees and 33 graduate students. The Department was recently awarded a nonhuman primate research resource program from the National Institutes of Health, whose resources are available for Investigator-initiated studies. The Department already has a strong research component in HIV and AIDS vaccine research and individuals in these areas are encouraged to apply; however, outstanding scientists in all areas of viral immunology will be considered. Renowned Immunologists from the Oklahoma Medical Research Foundation and the Dean McGee Eye Institute interact in a close working relationship and provide the potential for additional interactions with prospective faculty candidates. For an overview of the Department, visit our website: **www.ouhsc.edu/mi/**. Submit a curriculum vitae, description of research interests, teaching experience, and the names of three references to: **Ronald C. Kennedy, Ph.D., Chair of the Search Committee, Department of Microbiology and Immunology, P.O. Box 26901, University of Oklahoma Health Sciences Center, Oklahoma City, OK 73190.** Applications will be reviewed beginning April 1, 1999. *The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Applications from women and ethnic minorities are strongly encouraged.*

STAFF ASSOCIATE

Staff Associate positions available immediately to study mechanisms of signal transduction induced by radiation and chemicals. M.S. degree required, and relevant experience in molecular/cellular biology/biophysics preferred. Send curriculum vitae and names of three references to: **Dr. Geard, Dr. Lieberman, and/or Dr. Hei, Columbia University, Center for Radiological Research, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer. Women and minorities candidates are encouraged to apply.*

Faculty Opportunities

Department of Cell Biology and Anatomy

Mount Sinai School of Medicine is a leader in medical education and research. The Department of Cell Biology and Anatomy invites applications for two tenure-track positions at either junior or senior level. The appointees are expected to develop active programs in at least one of the following research themes: extracellular matrix; signal transduction; intracellular translocation of macromolecules; vesicular transport; and/or organelle assembly. Newly renovated laboratories and extensive research facilities are available.

**Mount
Sinai**

Interested candidates with a Ph.D. and/or M.D. degree and outstanding records of research productivity should send a C.V., one-page description of research plans, and names and addresses of three references to: **Chair of the Search Committee, Cell Biology and Anatomy Department, Box 1007, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** Visit us on the web at: www.mssm.edu/cellbio We are an equal opportunity employer fostering diversity in the workplace.

Mount Sinai School of Medicine

Chair

Department of Biochemistry and Molecular Biology

Mount Sinai School of Medicine has initiated a search for a Chair for the newly created Department of Biochemistry and Molecular Biology. This department represents a recent amalgamation of the Department of Biochemistry and the Brookdale Center for Molecular and Developmental Biology. Our ideal candidate possesses international stature in research and a strong commitment to a leadership position at Mount Sinai School of Medicine. A substantial recruitment package will be made available to the Chair to enable the new department to undergo significant growth in faculty, space, and facilities over the next few years.

**Mount
Sinai**

Interested candidates should respond by March 15, 1999, to: **Dr. Paul M. Wassarman, Chair of the Search Committee, Box 1475, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574; Fax: 212-410-6111.** We are an equal opportunity employer fostering diversity in the workplace.

Mount Sinai School of Medicine

STONY BROOK POSTDOCTORAL POSITIONS

STATE UNIVERSITY OF NEW YORK

The following postdoctoral positions will become available Spring/Summer 1999:

Molecular Embryology: TGF-beta signals and T-box genes in vertebrate development

Dr. Gerald H. Thomsen, Biochemistry and Cell Biology

Functional genomics tools for characterization of novel genes

Dr. Anil Dhundale, Center for Biotechnology

Organic Synthesis and Medicinal Chemistry:

Natural product analogs and combinatorial chemistry
Dr. Scott Sieburth, Chemistry

Experimental foraging ecology of wild capuchin monkeys

Dr. Charles Janson, Ecology and Evolution

Virology: Immunohistochemical localization of human poliovirus receptors in the CNS

Dr. Michael Shepley, Division of Infectious Disease

Gauge field theory, elementary particle theory, statistical mechanics, supersymmetry and superstrings

Dr. P. van Nieuwenhuizen, Institute for Theoretical Physics

Molecular biology and function of Clq receptors

Dr. Berhane Ghebrehwet, Medicine

Allergy/Clinical Immunology: Bronchial asthma—the role of CD40 ligand and VIP

Dr. Anthony M. Szema, Medicine

Nuclear Theory Group: Non-perturbative QCD, hadronic phenomenology, heavy ion collisions and nuclear astrophysics

Dr. Edward Shuryak, Physics and Astronomy

Submit resumes, specifying to which researcher you are applying, by February 23, 1999 to: George Meyer, Office of the President, State University at Stony Brook, Stony Brook, NY 11794-0701; e-mail: postdocads2@notes.cc.sunysb.edu

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

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PROTEIN BIOCHEMISTRY/ ENZYMOLGY

This opening is for an investigator with at least 2 years postdoctoral training, who is skilled in the areas of enzyme kinetics and protein biochemistry and in the understanding of structure-function relationships in proteins. In addition to establishing a strong independent research program, the successful candidate will work with program teams in Discovery Research to aid in the design and implementation of kinetic assays, and in the kinetic analysis of complex systems involving protein/ligand and protein/protein interactions. A major research objective of the candidate will be to facilitate interpretation of kinetic information leading to an understanding of drug mechanisms based upon kinetic data. In addition to these qualifications, skills in the use of

computers for searching databases for protein structures and motifs as part of a proteomics effort will be seen as valuable assets for the candidate.

Pharmacia & Upjohn offers a competitive salary and benefits. For confidential consideration, please send your resume to:

Pharmacia & Upjohn
Position #990085
Staffing, 5003-24-0
7000 Portage Road
Kalamazoo, MI 49001

Or you may e-mail your resume (no attachments, please) to: recruit@am.pnu.com. We are an equal opportunity employer with a commitment to workplace diversity.



Pharmacia & Upjohn

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR PHYSIOLOGIST

A tenure-track faculty position is available for an outstanding candidate in physiology whose research will complement existing research programs in development, cell biology, and neuroscience. Candidates using contemporary molecular and cellular techniques to study aspects of pain modulation, cardiovascular physiology, membrane physiology, or bone or craniofacial development are encouraged to apply. Extramural research support is required and it is expected that the successful candidate will maintain an active research program. Candidates will be expected to participate in team teaching of physiology to dental students and to contribute to graduate student training. Interested applicants should send a curriculum vitae, statement of research interests, three reprints, and names of references to: **Dr. Lee Robertson, Department of Biological Structure and Function, Oregon Health Sciences University, 611 S.W. Campus Drive, Portland, OR 97201.**

Affirmative Action/Equal Opportunity Employer.

The University of Florida seeks an **ASSISTANT SCIENTIST** for the Division of Nephrology, Department of Medicine. This is a full-time, non-tenure-track position. Ph.D. degree and three years of experience with *in vitro* microperfusion. Responsibilities include isolation and perfusion of nephron segments; measurement of net and isotopic fluxes and microanalysis of microdissected nephron segments; supervising graduate students and Laboratory Technicians; collaborating with other research scientists, Postdoctoral Research Fellows, and Clinical Fellows in the laboratory; overseeing the transport program of research; and writing grants seeking extramural research support. Salary and benefits commensurate with experience. Recruiting deadline: February 25, 1999. Anticipated start date: March 14, 1999. Please reply with curriculum vitae to: **I. David Weiner, M.D., Associate Professor of Medicine, Department of Medicine, Division of Nephrology, Box 100224, JHMC, Gainesville, FL 32610.** An Equal Opportunity/Affirmative Action Employer.

MASS SPECTROMETRY FACILITY SUPERVISOR

The Scripps Research Institute (TSRI) is seeking a highly motivated individual with excellent interpersonal and technical skills to supervise an "open-access" mass spectrometry laboratory. The facility contains both ESI/LC/MS and MALDI/MS instruments used by various TSRI research groups in the chemical and biological sciences. Qualified candidates will have technical experience in performing and implementing a wide variety of mass spectrometer experiments and a Ph.D. in chemistry, biochemistry, or related discipline. For more information, **website: www.scripps.edu.** Please reference *Science* in curriculum vitae and send to: **The Scripps Research Institute, 10550 North Torrey Pines Road, TPC-11, La Jolla, CA 92037.** E-mail: resumes@scripps.edu; FAX: 619-784-8071. *Affirmative Action/Equal Opportunity Employer.*

SCIENTIFIC REVIEW ADMINISTRATORS. University of California, Davis, California Cancer Research Program (CRP). \$3,841 to \$5,758 per month. Work with California Department of Health Services and UC Davis to help set up and administer greater-than \$20 million-per-year research grant program. Represent CRP to constituencies concerned with cause, diagnosis, prevention, and treatment of cancer. Advanced degree in epidemiology, cancer biology, clinical sciences, or health policy, and knowledge of research administration required. Ref Job# 1316, 1317, 1318, or 1319 at **website: hr.ucdmc.ucdavis.edu/empopr.htm.** For detailed information, **Telephone: 530-754-9659; e-mail: adstone@ucdavis.edu.**

RESEARCH TECHNICIANS. Advanced Viral Research Corp. (ADVR), a leader in the development of peptide nucleic acids, is seeking personnel to staff its new research laboratories in Westchester County, New York. Candidates should have B.S./M.S. degrees with at least one year of laboratory research experience and should be familiar with techniques in molecular biology, virology, and/or cellular immunology. We offer highly competitive compensation and benefits packages. Please submit curriculum vitae to: **Human Resources Department, Advanced Viral Research Corp., 200 Corporate Boulevard South, Yonkers, NY 10701.** FAX: 914-376-7368. *ADVR is an Equal Opportunity Employer.*

POSITIONS OPEN

SENIOR PHYSICAL CHEMIST SINGLE-MOLECULE SPECTROSCOPIST

The Chemical Structure and Dynamics (CS&D) department of the William R. Wiley Environmental Molecular Sciences Laboratory (EMSL) has an immediate opening for a Senior Physical Chemist to lead a laboratory of ultrafast and single-molecule spectroscopy. The Chemical Structure and Dynamics (CS&D) staff conduct research providing a fundamental understanding of molecular-level chemistry at a wide variety of environmentally important interfaces. The CS&D research facility has the capabilities to synthesize unique molecular structures (surfaces, interfaces, and atomic and molecular clusters), to measure the structures of these model systems (including the ability to study single molecules within these structures), and to observe their chemical properties (thermodynamics, kinetics, and dynamics). This approach provides the underpinning for quantitative models of the complex systems found in natural and contaminated environments.

The scientist will develop capabilities in the CS&D department for studies of fundamental molecular processes related to one or more of the environmental health missions of the EMSL: atmospheric chemistry, cellular response to environmental contaminants, subsurface contaminant fate and transport, and waste processing (see **website: <http://www.emsl.pnl.gov>** for more details). The scientist will be responsible for program elements in the general areas of condensed-phase laser spectroscopy and chemical dynamics, and will have stewardship for the time-resolved spectroscopy and ultra-microscopy (single molecule and single cell) facility within the EMSL.

This facility includes a diffraction-limited scanning microscope system for spectroscopic studies of single molecules, a combined AFM/confocal microscope for obtaining spatially resolved spectroscopic data at the molecular level, a two-frequency, tunable near-IR femtosecond laser system, and an associated scanning microscope for diffraction-limited CARS imaging of single cells, an enhanced commercial confocal microscope for imaging and dynamical studies in living cells, and other related equipment in a 2,000-square foot laboratory complex. The EMSL is a DOE national user facility that has a budget for the operation and maintenance of this equipment. In support of this role, the scientist will promote the independent and/or collaborative use of these EMSL capabilities by scientist from throughout the world and work to keep this facility at the state of the art. About 50 percent of the time on this equipment is available for the scientist's individual research program in addition to that work done in conjunction with external collaborators.

Qualified candidates must have a Ph.D. with background in experimental chemical physics, or biophysics, and a postdoctoral appointment in a related field and an exemplary publication record. If interested, please respond via e-mail: mary.heaton@pnl.gov, Ref: SPC. Or apply electronically to our external website: **<http://www.pnl.gov/hrpublic/>** and apply to 038065. *PNNL is operated by Battelle for the U.S. Department of Energy and is an Affirmative Action/Equal Opportunity Employer and supports diversity in the workplace. Minorities, women, Vietnam-era veterans, and the disabled are encouraged to apply.*

COLLABORATIVE RESEARCH POSITION

A position is available immediately for a Collaborative Research Scientist in the Regulation of Gene Expression Section, Laboratory of Molecular and Developmental Biology in the National Eye Institute, National Institutes of Health, Bethesda, Maryland. This position involves collaborative experimentation on the various projects within the laboratory, including study of signal transduction and role of transcription factors interaction in the regulation of gene expression in the ocular lens. The chosen individual will have a major role in maintaining research continuity within the laboratory, will have the possibility to attend scientific meetings and training courses to keep abreast of latest scientific developments. The applicant must be a U.S. citizen or permanent resident, and have a Ph.D. degree and previous experience in molecular biology, cell biology, tissue culture, biochemistry, and knowledge of computers and sophisticated scientific equipment usage. Salary ranges from \$58,027 to \$89,142 depending upon previous experience and education. Please send curriculum vitae, bibliography, and names of three references to: **Dr. Ana B. Chepelinsky, Laboratory of Molecular and Developmental Biology, NEI, NIH, 6 Center Drive—MSC 2730, Building 6, Room 211, Bethesda, MD 20892-2730.** Telephone: 301-496-9615; FAX: 301-480-7933; e-mail: abc@helix.nih.gov.

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POSITIONS OPEN

DIRECTOR, CENTER FOR LANDSCAPE ANALYSIS

The Wilderness Society, a nonprofit membership organization devoted to wilderness and wildlife, seeks a Director for its productive and successful Center for Landscape Analysis (CLA) in Seattle, Washington. Individual will be a proven leader with demonstrated ability to make GIS integral to broader conservation activities of the organization. Director oversees the CLA laboratory, which currently employs four GIS/RS Specialists. Using a team approach, the Laboratory undertakes studies that identify and justify reserve systems and provide analyses important for defining environmentally sound management practices. Advanced degree in conservation biology, landscape ecology, or related discipline and extensive GIS experience required. Ability to communicate with diverse audiences and experience in public policy analysis on environmental and conservation issues preferred. Ability to seek outside funding important. Salary is competitive in the environmental community and the position includes a comprehensive benefits package. Position is available immediately. Applicants should submit résumé, letter of interest, and names, addresses, telephone numbers, and e-mail addresses of three references by 15 March 1999. Send applications to: **Dr. G. Thomas Bancroft, The Wilderness Society, 900 Seventeenth Street, Washington, D.C. 20006.** For more information, **Telephone: 202-429-2689; e-mail: tom_bancroft@tws.org.** *The Wilderness Society is an Equal Opportunity/Affirmative Action Employer.*

BIOCHEMIST. Arena Pharmaceuticals Inc., a young San Diego-based biotechnology company, is seeking a Biochemist with a Ph.D. in the biological sciences and at least three years of industrial experience. Experience in molecular biology, protein chemistry, and assay development is desirable. The best candidates will also possess knowledge in signal transduction pathways, G protein-coupled receptors, and G protein regulation. Responsibilities will involve determining the signal transduction pathways of Arena's many proprietary G protein-coupled receptor targets and development of novel assay systems using molecular and biochemical expertise. The successful candidate will have good communication skills and work closely with both the molecular biology group and the high-throughput screening group to aid in the transformation of molecular information into novel high-throughput screens. This position will report directly to a Research Director. Please send or FAX your résumé (attention of human resources) to: **6166 Nancy Ridge Drive, San Diego, CA 92121.** FAX: 619-453-7210.

BIOPHYSICIST IMAGE PROCESSING

Full-time **ASSOCIATE SPECIALIST** to conduct research on high-resolution electron microscopy of proteins. Involves implementing, testing, and developing concepts for merging data from high-resolution images of single protein particles. Prefer previous experience in one or more of the following areas: developing code for super computers; image processing; and electron microscopy of protein particles. M.S. in biophysics, physics, chemistry, computer science, applied math, or engineering or equivalent. Salary range: \$42,660 to \$51,372. Send résumé, description of research experience, and bibliography by March 12, 1999, to: **Dr. Robert Glaeser, Department of Molecular and Cell Biology, University of California, 229 Stanley Hall, #3206, Berkeley, CA 94720-3206.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

DISCOVERY SCIENTISTS

OriGenix Therapeutics, Inc. is a newly formed biotechnology company developing novel nucleic acid-based compounds as anti-infective agents. We are currently seeking an enthusiastic and dedicated individual to join our virology group. Candidate must have experience in hepatitis or herpesvirus replication, and be capable of establishing *in vitro* screening assay to identify antiviral compounds. The individual must have demonstrated skills in molecular biology and working with infectious agents. A Ph.D. in molecular biology or virology with a minimum of two years of related postdoctoral experience is required. Applicants should submit a curriculum vitae with salary requirements to: **OriGenix Technologies Inc., 230 Bernard Belleau, Laval, Quebec H7V 4A9 Canada, Attention: Dr. R. P. Iyer.** *Applicants who are not Canadian citizens or permanent residents must satisfy Canadian immigration laws.*

FACULTY POSITIONS IN THE DEPARTMENT OF HUMAN GENETICS AT UCLA SCHOOL OF MEDICINE

The School of Medicine of the University of California, Los Angeles has recently established the Department of Human Genetics, chaired by Dr. Leena Peltonen. Housed in the new state-of-the-art Gonda Neuroscience & Genetics Center at UCLA, the focus of the new department will be on the discovery of genes underlying human disease (including but not limited to neurologic and psychiatric disorders) and on elucidation of the functions of these genes. The faculty will be expected to develop strong independent research programs and to participate in graduate and medical education.

We now seek to fill three tenure-track positions at the assistant professor or higher levels. We are looking for outstanding individuals with interest in any of the following areas:

- statistical genetics and genetic epidemiology
- bioinformatics and functional genomics
- disease models in model organisms

Applicants should send a curriculum vitae with a summary of research interests and arrange for three letters of reference to be sent by March 30 to:

**Chair, Human Genetics Search Committee
Department of Human Genetics
UCLA School of Medicine
6506 Gonda (Goldschmied) Neuroscience & Genetics Research Center
695 Charles E. Young Drive, South, Box 957088
Los Angeles, CA 90095-7088**

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[HTTP://www.medsch.ucla.edu/SOM/HUMGEN](http://www.medsch.ucla.edu/SOM/HUMGEN)*

NATIONAL CANCER INSTITUTE (NCI) DIVISION OF CANCER TREATMENT AND DIAGNOSIS (DCTD) DEVELOPMENTAL THERAPEUTICS PROGRAM (DTP)

**INFORMATION TECHNOLOGY BRANCH
SUPERVISORY CHEMIST/SUPERVISORY BIOLOGIST
GS-1320/401-15**

ANNOUNCEMENT NUMBER:CA-98-2343

The NCI is accepting applications for the position of Chief, Information Technology Branch, Developmental Therapeutics Program (DTP), located in Rockville, Maryland. We are seeking applicants experienced in medicinal chemistry, organic chemistry, or biologic science with expertise in computational and/or mathematical modeling of biological and chemical information. The Information Technology Branch provides automated data processing support to the DTP and collects and manages the structural, chemical, inventory, shipping, biological testing and management support data associated with the various DTP programs. The Branch has responsibilities for (1) providing laboratory computer support for drug screening; (2) developing and maintaining automated quality control systems for screening operations to facilitate technical review and enhance operational efficiency; (3) developing and establishing data handling, storage and retrieval systems; (4) studying operational data processing needs of the DTP and recommending new methods where necessary; (5) maintaining and operating a repository of drug screening data; (6) maintaining an interactive Website for public access for DTP data; and (7) pro-actively utilizing the most modern informatics approaches for management, interpretation, and use by extramural investigators of DTP information. The incumbent of position will serve as Branch Chief with responsibility for the planning and direction of the Branch's projects and activities. This position requires a creative approach to problems, a capacity for extensive planning and evaluation, and an ability to apply sound scientific judgment.

Salary - \$77,798 - \$101,142

Benefits - Health and life insurance options, retirement, paid holidays, vacation and sick leave.

U.S. citizenship is required. Applicants must meet the basic experience and educational qualification requirements for Chemist and/or Biologist. In order to assess your qualifications, please address the following rating criteria: 1) Knowledge of chemical structure databases and biological databases; 2) Ability to plan and direct projects for conducting research regarding information technology; and 3) Ability to provide managerial and supervisory leadership to other professional staff.

For further qualification requirements, application procedures, and other additional information, please contact the NCI Staffing Office at (301) 401-2812. Please submit either an application for Federal Employment or a resume to: National Cancer Institute, Human Resource Management & Consulting Branch, 6120 Executive Boulevard MSC 7211, Executive Plaza South, Suite 550, Rockville, MD 20852-7211 by the closing date of 03/07/99.

NIH is an Equal Opportunity Employer

POSITIONS OPEN

MANAGER OF PEPTIDE CHEMISTRY AND BIOPROCESSING. Manager is responsible for knowledge in different departments of peptide chemistry and bioprocessing, including formulation development, process development, and peptide synthesis. In the area of formulation development the Manager is responsible for preclinical and clinical development of drug formulations of bioorganic molecules, principally, but not limited to, peptides and proteins; managing fill/finish operations and liaise with external contractors and suppliers to ensure efficient and timely supply of drug products for clinical investigations; and meeting department budget and cost control targets. In the area of process development, Manager is responsible for preclinical and clinical process development and scale-up in specific projects; and managing relations with external suppliers to ensure delivery of key intermediates of required quality in a timely manner. In the area of peptide synthesis, Manager is responsible for managing a laboratory-scale peptide synthesis team. This includes all responsibilities for supplying in-house research and development needs. Requires Ph.D. in chemistry and four years of industrial experience in the field of peptide chemistry including managerial and business experience. Requires knowledge in the different stages of peptide chemistry and bioprocessing, including process development and peptide synthesis; expertise in a wide range of biological, physical, and chemical analytical methods, documentation, quality control, as well as a good understanding of drug discovery and development processes from research through approval. Project management requires expertise in organic and bioorganic chemistry, peptide and protein technology, including synthesis, purification, analysis, and characterization, as well as development of GMPs and related documentation. Peptide synthesis requires expertise in chemical synthesis, purification and analysis of peptides, using both solution and solid phase methodology, encompassing extensive experience in Boc and Fmoc techniques on a variety of supports including polystyrene, polydimethylacrylamide, and polyethyleneglycol; also required is experience in peptide synthesis in a commercial/business environment. 8:00 a.m. to 5:00 p.m., 40 hours per week. \$94,990 per year. Submit two résumés to: **Case# 80447, P.O. Box 8968, Boston, MA 02114.**

DIRECTOR OF THE MINNESOTA SEA GRANT COLLEGE PROGRAM

Applications and nominations are invited for the position of Director of the Minnesota Sea Grant College Program. The administrative office is on the Duluth campus of the University of Minnesota. Position includes an annually renewable administrative appointment with systemwide responsibility, reporting to the Vice President for Research and Dean of the Graduate School of the University of Minnesota, and a tenured faculty appointment in a relevant academic department of the University of Minnesota, Duluth. Details of position responsibilities may be found at **website: <http://www.d.umn.edu/seagr>.**

Candidates must hold a Ph.D. or equivalent degree. Preference given to those with a significant record of teaching, research, and service in an area related to Sea Grant mission; outreach experience; successful administrative and leadership experience; and proven skills in working effectively with interdisciplinary groups of faculty, students, staff, and collaborators.

Final date for receipt of completed applications is April 1, 1999. Applications must include a letter of interest that addresses the position responsibilities, curriculum vitae, and the names and mailing and e-mail addresses of at least three references. Send applications to: **Sea Grant Director Search Committee, University of Minnesota, 2305 East 5th Street, Duluth, MN 55812.**

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

NEUROSCIENCE FELLOW/RESEARCH ASSOCIATE position available to study cellular/molecular mechanisms that modulate synaptic transmission and plasticity in the central nervous system. Studies focus on intracellular signaling mechanisms involving calcium and protein kinase/phosphatase pathways using brain slice preparations (*Neuron* 15:443, 1995; *J. Neurosci.* 17:4600, 1997). Expertise in intracellular/patch clamp recordings, and/or calcium imaging preferable. Please send curriculum vitae and statement of research interests to: **Paul Kelly, Professor, Department of Neurobiology and Anatomy, University of Texas Medical School, P.O. Box 20708, Houston, TX 77225. E-mail: pkelly@nba19.med.uth.tmc.edu.** *Equal Opportunity Employer/Affirmative Action.*

POSITIONS OPEN



The Immunology and Disease Resistance Laboratory, Livestock and Poultry Sciences Institute (LPI), Beltsville, Maryland is seeking two permanent full-time **IMMUNOLOGISTS**. The scientists will (1) characterize bovine cellular immune responses to mastitis infections and (2) develop means to use host immunity to control cattle *Neospora caninum* infections. *U.S. citizenship is required.* Salary range (GS-11/12) is \$40,714 to \$63,436 per annum and is commensurate with experience (Ph.D. desired). Positions have specific requirements that must be addressed. Announcements are available by **Telephone: 301-504-1484** or from the Internet at **website: www.ars.usda.gov/afm/hrd/resjobs**. Vacancy announcement numbers for these positions are ARS-D9E-9146 for the mastitis Researcher and ARS-D9E-9147 for the cattle parasite work. Applications must be postmarked by March 1, 1999. For information on the research program contact: **Dr. Joan Lunney, Telephone: 301-504-8201. USDA/ARS is an Equal Opportunity Provider and Employer.**

Genomic Solutions Inc., a rapidly growing, worldwide, biotechnology company based in Ann Arbor, has an immediate opening for a **RESEARCH SCIENTIST** in its Department of Molecular Biology in the DNA microarray group. The qualified applicant will have a Ph.D. in molecular biology plus two years of experience. Additional experience in DNA hybridizations, bioinformatics, and a familiarity with robotic systems will be helpful. Applicants with prior industrial experience are preferred. GSI offers an excellent salary and benefits package including 401(k) plan, medical and dental insurance. Interested applicants should submit a résumé with relevant experience to:

**Genomic Solutions Inc., Department CB
4355 Varsity Drive
Ann Arbor, MI 48108
FAX: 734-975-4808
E-mail: jobs@genomicsolutions.com**

We are an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available at Johns Hopkins in training in basic research in molecular and cell biology related to GI and hepatology in the following areas: cytokine signaling and hepatocyte proliferation; structure/function and regulation of Na/H exchanger gene family; mitochondrial uncoupling activity and hepatocyte biology; transcriptional regulation of intestinal differentiation and carcinogenesis; and vesicle traffic in hepatic cell lines.

Candidates must have a Ph.D. and/or M.D. and must be *U.S. citizens or permanent residents* in order to qualify for NIH Training Grant support. Send curriculum vitae and area of interest to: **The GI Division, The Johns Hopkins University School of Medicine, 915 Ross Research Building, 720 Rutland Avenue, Baltimore, MD 21205-2195, Attention: Helen McCann. FAX: 410-955-9677. Equal Opportunity Employer.**

NEUROIMMUNOLOGY FELLOWSHIP

One-year, renewable position for a Ph.D. to study mechanisms of central nervous system inflammatory demyelination in multiple sclerosis. To include studies on T cell costimulation, antigen presentation, production of recombinant proteins, the role of lipids in inflammation, and/or identification of antigenic epitopes and T cell receptor usage. Techniques include cell culture, flow cytometry, Eli-spot, RT-PCR, SSCP, and cloning. Multiple collaborations available. Interested persons should contact: **Dr. John Trotter, The Barnes-Jewish MS Center and the Washington University Medical Center, Box 8111, 660 South Euclid Avenue, St. Louis, MO 63110. Telephone: 314-362-3293; FAX: 314-747-1345; e-mail: trotterj@neuro.wustl.edu.**

POSTDOCTORAL POSITION MOLECULAR ENDOCRINOLOGY

Several positions are available immediately to study various molecular aspects of hormone action and endometriosis. Applicants with a Ph.D. and background in molecular biology, hormone action, cytokine regulation, and macrophage biology should send curriculum vitae and the names of three references to: **Dr. Sampath Parthasarathy, Emory University School of Medicine, Department of Gynecology and Obstetrics, 1639 Pierce Drive, Atlanta, GA 30322. E-mail: spartha@emory.edu.**

Emory University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION UNIVERSITY OF TEXAS AT DALLAS

A Postdoctoral position is available immediately in the area of structural biological investigations of membrane receptors in insects. Candidates should have a strong background in biochemistry and/or molecular biology. Experience in X-ray crystallography, protein purification, and gene cloning are essential requirements. Please send a recent curriculum vitae, names of three references, and a statement of research interests and goals to: **Dr. Lee Bul-la, The University of Texas at Dallas, Department of Molecular and Cell Biology, FO 3.1, P.O. Box 830688, Richardson, TX 75083-0688. Website: <http://www.utdallas.edu/dept/biology>.** *UT Dallas is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately to study the pathogenesis of prostate cancer metastases to bone. Our goals are to identify the molecules expressed by prostate cancer cells (or osteoblasts) that modulate the expression of bone-specific genes (or prostate cancer cells) and explain at the molecular level the appearance of bony metastases. Applicants should have an M.D. or Ph.D. and training in molecular biology/cell biology. Send curriculum vitae, selected reprints, statement of research interest, and three references to: **Nora M. Navone, M.D., Ph.D., Department of Genitourinary Medical Oncology, The University of Texas, M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. Equal Opportunity Employer. Smoke-free environment.**

POSTDOCTORAL FELLOWSHIPS are available in computational aspects of experimental neuroscience under the auspices of the Swartz Initiative in Computational Neuroscience. The Initiative is a joint undertaking with Cold Spring Harbor Laboratory and the State University of New York at Stony Brook, involving laboratories investigating questions in neuroscience at these institutions. Candidates with computational neuroscience training who wish to focus a significant portion of their efforts on experimental aspects of theoretical neuroscience problems should apply for these well-funded positions. For further information on applications and participating laboratories, please write to: **The Swartz Initiative in Computational Neuroscience, Post Office Box 1061, Smithtown, NY 11787.** Or visit our Internet URL for Fellowships at **website: swn.neuro.org/fellowships.**

HARVARD MEDICAL SCHOOL MASSACHUSETTS GENERAL HOSPITAL SHRINERS BURNS HOSPITAL

POSTDOCTORAL POSITION available immediately in gene therapy and tissue engineering of the skin to manipulate immunology and transplantation of the skin as well as autocrine/paracrine growth control. Strong background in cellular/molecular biology and/or immunology required. Please submit curriculum vitae, a brief summary of research experience, and goals with the names of three references to: **Jeffrey R. Morgan, Ph.D., Shriners Burns Hospital Research Center, One Kendall Square, Building 1400, Cambridge, MA 02139.**

POSTDOCTORAL POSITIONS in photobiology and microscopy. Postdoctoral research opportunities are available in the following areas: the study of photochemical processes of melanin and related skin pigments using modern optical techniques, and the development and use of novel confocal microscopies. Outstanding candidates with a strong background in chemistry and/or biochemistry, and experience using laser-based devices are encouraged to apply. Salary will be commensurate with experience. Please send curriculum vitae and arrange for three letters of recommendation to be sent to: **Professor John D. Simon, Department of Chemistry, Duke University, Durham, NC 27708. FAX: 919-660-1605; e-mail: jds@chem.duke.edu.** *Equal Opportunity Employer.*

MOLECULAR BIOLOGIST. A STAFF SCIENTIST position is available to direct high-throughput cloning and expression of signal transducing domains for a new initiative in proteomics within a protein crystallography laboratory. A Ph.D. degree, postdoctoral experience, and a record of accomplishment in cDNA cloning, use of genomic databases, and protein expression is required. Interest in working with a team of Crystallographers, Biochemists, and Technicians is essential. Salary is commensurate with experience. Apply to: **Dr. James H. Hurley, Laboratory of Molecular Biology, NIDDK, NIH, 5 Center Drive, Bethesda, MD 20892-0580. E-mail: jh8e@nih.gov.**

**National Institutes of Health
National Institute on Aging
Public Health Service
Department of Health and Human Services
Chief, Laboratory of Neurosciences**

The National Institute on Aging (NIA), the NIH lead institute in Alzheimer's disease research, is recruiting a scientific leader for its research efforts in neuroscience. This is a Civil Service position. Starting salary is commensurate with qualifications and experience. Candidates may be eligible for Physician's Comparability Allowance up to \$20,000 per year. Alternatively, candidates may be eligible for appointment in the Senior Biomedical Research Service or under the Title 42 mechanism.

The Chief of the Laboratory of Neurosciences is responsible for a sizable intramural research laboratory with the potential to recruit at least four other independent tenured and/or tenure track senior investigators. The Laboratory of Neurosciences conducts basic and clinical research on brain aging and on the characteristics, mechanisms, and potential therapies for Alzheimer's disease and related dementias as well as other age-related neurodegenerative diseases. The laboratory may have resources on both the Bethesda and the Baltimore campuses of the NIH. The ideal candidate will have demonstrated a body of significant accomplishments in neuroscience in general and the neurobiology of aging in particular with a proven record of excellence in laboratory and/or clinical research as demonstrated by publication in the highest quality peer-reviewed journals, participation in invited national and international meetings, and receipt of research awards. Furthermore, an established track record of success in mentoring scientists-in-training consistent with the priorities of the NIH will contribute to the evaluation process.

Further information may be obtained by contacting Ms. Karen Maben at 410-558-8118. A current curriculum vitae and bibliography and six letters of recommendation should be submitted to: Personnel Office, National Institute on Aging, Gerontology Research Center, 5600 Nathan Shock Drive, Baltimore, MD 21224-6825. Applications must be postmarked by **April 5, 1999**.

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POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE position. Two positions available. Postdoctoral Research Associate to participate in epidemiological study of body composition and cardiovascular disease risk factors. Primary focus is analyzing data collected in ongoing studies and to collaborate on manuscripts. Opportunities exist for expanding the scope of the research. Doctorate required, by starting date, in epidemiology, sports medicine, biostatistics, exercise physiology, human biology, nutrition, genetic epidemiology, or a related field. Analytical background and research interests compatible with this team preferred. Ability to work independently and cooperatively within a team of established Investigators is essential. Current interests within team relate to role of changes in body composition over the life span in the development of cardiovascular disease. Review begins March 1, 1999. Open until filled. Apply to: **Chair, Postdoctoral Search Committee, Division of Human Biology, Wright State University School of Medicine, 1005 Xenia Avenue, Yellow Springs, OH 45387. FAX: 937-767-6956. Equal Opportunity/Affirmative Action Employer.**

Two NIH-funded **POSTDOCTORAL POSITIONS** available immediately, to study the molecular basis of bladder smooth muscle dysfunction and prostate cancer growth and metastasis. Studies now in progress include mechanisms of (1) apoptosis regulation, (2) regulated secretion of EGF-like growth factors, (3) stromal-epithelial cell interaction, and (4) smooth muscle contractility and hypertrophy. Candidates should have a Ph.D. or equivalent in molecular/cell biology or biochemistry. Please apply to: **Michael R. Freeman, Ph.D., Enders Research Laboratories 1151, Children's Hospital, Harvard Medical School, 300 Longwood Avenue, Boston, MA 02115. E-mail: freeman_m@al.tch.harvard.edu.**

Neurogenetics. A **POSTDOCTORAL POSITION** is available to study the genetics of dyslexia and the biology of cerebral lateralization (asymmetry). This work will be conducted in the context of a dynamic, growing laboratory applying genetic and classic neurobiologic approaches to neurologic disease. Background in molecular and/or statistical genetics is preferred, although all qualified applicants will be considered. Please send letter of interest and curriculum vitae to: **Dr. Dan Geschwind, Director, Neurogenetics Program, UCLA Neurology Department, 710 Westwood Plaza, Los Angeles, CA 90095. E-mail: dhg@ucla.edu.**

MICROBIAL GENOMICS

POSTDOCTORAL POSITION available to analyze the genome of *Geobacter* and other environmentally relevant subsurface microorganisms in collaboration with TIGR and Exxon. Please send curriculum vitae and names of three references to: **Dr. Derek Lovley, Department of Microbiology, University of Massachusetts, Amherst, MA 01003. E-mail: dlovley@microbio.umass.edu. University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOW. Ibis Therapeutics, a division of Isis Pharmaceuticals, is dedicated to the discovery of small molecule drugs targeted against critical RNA structures in prokaryotes and eukaryotes. The Functional Screening Group is seeking an individual to work in the areas of RNA structural analysis and assay development. Experience in the areas of RNA structural analysis, eukaryotic cell culture, mRNA splicing, and eukaryotic or viral gene regulation/translation would be desirable. Send résumé to: **Ibis Therapeutics, Human Resources-Code 313, 2292 Faraday Avenue, Carlsbad, CA 92008. FAX: 760-603-2700. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS IN MAMMALIAN GENETICS

A position is available to study the genetic control and mechanisms of recombination in mice. Transgenic, knockout, and phenotype-based mutagenesis strategies are being used to understand meiotic recombination and consequences of recombinational repair defects in somatic tissues. To inquire, send curriculum vitae to: **John Schimenti, Ph.D., The Jackson Laboratory, Bar Harbor, ME 04609. E-mail: jcs@jax.org; Telephone: 207-288-6402; website: http://www.jax.org/~jcs.**

POSITIONS OPEN

POSTDOCTORAL POSITION(S) DEPARTMENT OF LABORATORY MEDICINE AND PATHOLOGY University of Minnesota

Postdoctoral position (1) available to study the role of growth and differentiation factors as they relate to signal transduction in tumor progression and metastasis. The candidate will have a Ph.D., M.D., or equivalent. Experience in cell culture, cloning, expression, and electrophoretic mobility shift assays, is desirable. Send curriculum vitae and the names of three references to: **Dr. Joseph De Larco** at address below.

Postdoctoral position(s) are also available in the area of cell adhesion and associated signal transduction mechanisms related to adhesion, motility, and tumor invasion. Applicants should have experience in the area of cell culture and the design and use of eukaryotic expression vectors. Knowledge of cell adhesion-related signal transduction mechanisms is desirable but not essential. Send curriculum vitae and names of three references to **Dr. James McCarthy** at address below.

Positions are for a minimum of two to three years:
**University of Minnesota
Department of Laboratory Medicine and Pathology
Box 609 Mayo
420 Delaware Street S.E.
Minneapolis, MN 55455**

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

POSTDOCTORAL RESEARCH ASSOCIATE. Experimental hematology and vascular biology. Applicants are required to have a Ph.D. in biochemistry, biology, or a closely related discipline, plus current laboratory experience in isolation, purification, and characterization of heparin-binding proteins. Preference given for experience in protein-ligand binding techniques, especially CD and ITC, and tissue culture. Experience in molecular biology techniques and carbohydrate chemistry desirable. Full-time, fixed-term appointment. Submit letter of application, curriculum vitae, and names, addresses, telephone numbers, and e-mail addresses of three references to: **Dr. Karyn Bird, College of Veterinary Medicine, Oregon State University, 105 Magruder Hall, Corvallis, OR 97331-4801. E-mail: birdk@ccmail.orst.edu. Closes March 19, 1999. OSU is an Affirmative Action/Equal Employment Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.**

POSTDOCTORAL POSITION. A position is immediately available in the Immunotherapy Program at the Medical College of Wisconsin Cancer Center. The selected person will initiate new approaches in the immunotherapy of breast cancer with the possibility of such studies advancing from laboratory experiments to clinical trials in the context of the Lymphocyte Propagation Laboratory. The position is for three years and offers a competitive salary based on the candidate's qualifications. A background in immunology and cell and molecular biology is required. Please send curriculum vitae, cover letter, and three references to: **Dr. William Burns, Medical College of Wisconsin, 8701 Watertown Plank Road, MFRC Building, Room 6033, Milwaukee, WI 53226.**

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

NIH-funded position available to investigate signal transduction mechanisms in arterial smooth muscle and elucidate the sequence of steps involved in vasoconstrictor actions and smooth muscle cell excitation. Background in molecular/biochemical methodologies and/or electrophysiology required. Applicants should submit (1) curriculum vitae, (2) a statement of current research activities, and (3) names of three references to: **Dr. Kenneth L. Byron, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153. Loyola University Chicago is an Equal Opportunity/Affirmative Action Employer and Educator.**

UNIVERSITY OF CALIFORNIA, IRVINE

A **POSTDOCTORAL POSITION** is available beginning sometime between April 1 and September 1, 1999, at the University of California, Irvine. We seek a recent Ph.D. graduate with experience in either molecular biology or biochemistry and who is interested in studies on regulation of RNA polymerase I, rDNA chromatin structures and nucleolar structures in the yeast *S. cerevisiae*. Send a curriculum vitae and the names of three references by March 15, 1999, to: **Dr. Masayasu Nomura, University of California, Irvine, Department of Biological Chemistry, Irvine, CA 92697-1700. UCI is an Equal Opportunity Employer committed to excellence through diversity.**

POSITIONS OPEN

USDA, Agricultural Research Service, Beltsville Human Nutrition Research Center is seeking a two-year, full-time (extendable) **POSTDOCTORAL RESEARCH ASSOCIATE**. The successful candidate will participate in studies designed to isolate and characterize hepatic retinyl ester hydrolases and study the structure, function, and physiological roles of these enzymes in vitamin A metabolism using cell culture models and intact animals. A Ph.D. in biochemistry, nutrition, or molecular biology and knowledge of protein purification and enzymology is required. Salary from approximately \$40,714 per year (GS-11) with full fringe benefits. *U.S. citizenship or citizenship of a country that is a member of a Defense Treaty of which the United States is also a member, or citizenship of a country that the U.S. Congress has specifically exempted from restricting legislation is required.* Submit applications (a curriculum vitae including the names, addresses, and telephone numbers of three professional references) to: **Dr. Earl Harrison, USDA/ARS/Beltsville Human Nutrition Research Center, Building 308, Room 101, BARC-East, Beltsville, MD 20705. Telephone: 301-504-7365; e-mail: harrison@bhnrc.arsusda.gov. USDA, ARS is an Equal Opportunity/Affirmative Action Employer/Provider.**

A **POSTDOCTORAL POSITION** is available immediately at the Indiana University School of Medicine to investigate the mechanisms of trafficking, homing, and engraftment of hematopoietic stem cells throughout ontogeny. Studies will focus on the relationship between cell cycle progression, modulation of adhesion molecule function, and engraftment of stem cells. Applicants must have a Ph.D. and/or M.D. Please send résumé and names of three references to: **Edward F. Srouf, Ph.D., Indiana Cancer Research Institute, 1044 West Walnut Street, R4-202, Indianapolis, IN 46202-5121. Telephone: 317-274-0343; FAX: 317-274-0396; e-mail: esrouf@iupui.edu. Indiana University is an Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available to participate in studies of protein kinases that regulate myosin assembly into the cytoskeleton in *Dictyostelium*. Studies will focus on biochemistry and/or cell biology of protein phosphorylation events that regulate myosin filament assembly. Individuals with experience in protein biochemistry and/or experience in DNA cloning methodologies are particularly encouraged to apply. Mail/FAX curriculum vitae and names/telephone numbers of three references to: **Dr. Tom Egelhoff, Department of Physiology and Biophysics, Case Western Reserve School of Medicine, Cleveland, OH 44106-4970. FAX: 216-368-1693.**

POSTDOCTORAL TRAINING in Oregon. Cardiovascular signaling. Two NIH-funded positions are available for highly qualified individuals holding the M.D. or Ph.D. for training in molecular, cellular, and systems cardiovascular signaling. The program is designed to provide vigorous training in a broad range of cardiovascular and neuroscience laboratories in the Vollum Institute and other well-known Oregon Health Sciences University laboratories. Send curriculum vitae and names of three references to: **Dr. Kent L. Thornburg, Division of Cardiology, L462, Oregon Health Sciences University, Portland, OR 97201. E-mail: thornbur@ohsu.edu. Applications from all ethnic and racial backgrounds encouraged.**

A **POSTDOCTORAL POSITION** is available to study the molecular mechanism of axonal guidance. Work in our laboratory is directed toward the identification and analysis of growth factors and receptors that regulate the formation of axonal pathways. Candidates with experience in axon tracing and neurobiology are encouraged to send their curriculum vitae, statement of research interests, and the names of three references to: **Dr. Renping Zhou, Laboratory for Cancer Research, College of Pharmacy, Rutgers, The State University of New Jersey, 164 Frelinghuysen Road, Piscataway, NJ 08854-8020. FAX: 732-445-0687; e-mail: rzhou@rci.rutgers.edu.**

POSTDOCTORAL POSITIONS immediately available to study (1) role of serine/threonine kinase Akt (PKB) in cell survival and metabolism; (2) Myc-induced cell-cycle progression and apoptosis (*Genes & Dev.* 8:2817-2830; *Genes & Dev.* 11:801-713; *Genes & Dev.* 12:502-513). Strong background in molecular biology, biochemistry, and mouse genetics preferred. Send curriculum vitae and three recommendation letters to: **Dr. Nissim Hay, Department of Molecular Genetics (M/C 669), University of Illinois at Chicago, IL 60607. FAX: 312-355-2032; e-mail: nhay@uic.edu. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

UNIVERSITÄT LEIPZIG

The **Interdisciplinary Centre for Clinical Research (IZKF)** at the **University of Leipzig** invites applications for the position of

Independent Research Group Leader Neuroimmunology

The Centre was founded in 1996 to focus research into cell-cell and cell-matrix interactions, paying particular attention to diagnostic and therapeutic applications. The new group is intended to establish a clear, cell-based approach to research within the field of neuroimmunology, and to take advantage of the excellent opportunities for collaboration within the IZKF. Common interests lie in the areas of cell differentiation, activation/inactivation, cell-cell interactions and signal transduction. The successful candidate will have a strong background in cell/molecular biology and biochemistry, and an interest in clinically orientated research.

This position will be supported for a period of 5 years at the BAT-O la level. Additional support is available for a post doctoral fellow, two graduate students and a technician, with an ample allowance for equipment and consumables.

Applications are to include c.v., publication list, three reprints of choice, a summary of current research interests and 2 letters of reference (to follow if necessary). Applications should be submitted within **3 weeks** after the appearance of this advertisement to:

**University of Leipzig Faculty of Medicine
Frau Dr. U. Selent, Manager, IZKF
Liebigstr. 27, D-04103 Leipzig, Germany**

Further details are available from the IZKF office.
**Tel.: + 49 341-97 15941, Fax: +49 341-97 15949,
e-mail: IZKF@rz.uni-leipzig.de**

nature medicine

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- A lively and broad interest in science
- An understanding of what constitutes a good News & Views article

The main responsibility will be to manage the journal's News & Views section, including the commissioning and editing of News & Views.

The successful candidate will therefore be aware of the need to combine newsworthiness, exciting science and good writing. Excellent sub-editing skills and a personable and professional manner are also called for. Working closely within a small group of editors, the Assistant Editor for News & Views will also contribute to other areas of the journal (including News, Commentaries, Book Reviews, Reviews and Special Projects), and will represent the journal at scientific meetings.

To apply, please submit a curriculum vitae, a concise cover letter explaining your interest in the post and a 500-word News & Views-style article on an exciting and newsworthy recent development in any area of biomedical research, to the address below. Please enclose copies of any relevant journalistic or editorial work. (These will not be returned.)

Closing date February 26th, 1999

The Editor, *Nature Medicine*, 345 Park Avenue South, 10th floor, New York, NY 10010-1707 Fax: (212) 683-5751



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As part of our expanding efforts in diabetes research, you will conduct biomedical research aimed at identifying novel therapeutic agents to treat diabetes mellitus. You will seek out novel agents to ameliorate insulin resistance and prevent vascular complications. You will conduct experiments using both biochemical and cellular models of diabetes.

You must have a Ph.D. in Biochemistry/Pharmacology/Cell Biology or a related discipline and have 2+ years of postdoctoral training. You should also have a strong background in biochemical techniques and an in-depth understanding of the biochemical defects in type 2 diabetes mellitus. You must have the ability to work within a multi-disciplinary team and contribute new ideas to the study of metabolic dysregulation across the life sciences effort at Monsanto. A record of prior accomplishments in the area of diabetes research is preferred.

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In this position, you will assist in the support, discovery and development of innovative methods to enhance hybrid wheat products. This will involve interaction with other groups within Monsanto to achieve goals in a team-based research environment. You will also plan and develop lab, growth chamber and greenhouse protocols for the research project as well as work with the team leader to monitor and maintain lab equipment and growth chambers. This position requires strong communication, interpersonal and organizational skills as well as the ability to maintain up-to-date computer records for complex data. We require an MS in Genetics, Agronomy or related field (BS w/ appropriate experience). Additionally, you will need 3-5 years experience in a relevant field that enabled you to gain a working knowledge with laboratory skills, plant tissue culture, media preparation, microbiology, and whole plant biology, including growth chamber, greenhouse and field. This job is located in Wichita, KS.

We offer a competitive compensation and benefits package. For consideration, please submit your resume to the appropriate destination.

Research Scientist: The Monsanto Company, Job Code: RS-EM, 700 Chesterfield Pkwy, Mail Code: BB5B, Chesterfield, MO 63198.

Research Assistant: The Monsanto Company, Job Code: RA, 5912 North Meridian, Wichita, KS 67204.

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POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study the cell biology of peptide hormone synthesis (see: *J. Cell. Biol.* 139:625, 1997; *J. Biol. Chem.* 273: 1158, 1998; and March 5, 1999, issue of *Cell*). Current projects involve analysis of neuroendocrine status in knockout mice and protein structure-function studies via mutagenesis of enzymes and regulators in transfected cell lines. Searching for motivated, independent recent Ph.D. with interest/experience in neuroendocrinology (especially pituitary).

Please send/e-mail curriculum vitae and names and telephone numbers of three references to:

Iris Lindberg, Ph.D.

Professor, Department of Biochemistry and
Molecular Biology/Neuroscience Center
Louisiana State University Medical Center
1901 Perdido Street
New Orleans, LA 70112

E-mail: ilindb@lsu.edu

Website: <http://www.lsumc.edu/campus/bioc/Lindberg/Lindberg.htm>

LSUMC is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS EVOLUTION OF DEVELOPMENT

Postdoctoral applications are being accepted for studies on the evolution of developmental mechanisms in the laboratory of **William Jeffery** at the University of Maryland, College Park. Projects include molecular analysis of larval development in ascidians and regression of eye development in cavefish. Individuals experienced in zebrafish development are especially sought for the latter project. Applications will be considered until all positions are filled. To apply, please send a curriculum vitae, including description of research experience and scientific goals, the names, telephone numbers, e-mail and mailing addresses of two references to: **Evolution of Development Postdoctoral Positions, c/o William R. Jeffery, Department of Biology University of Maryland, College Park, MD 20742-4415.**

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

POSTDOCTORAL POSITIONS at the University of Pennsylvania School of Medicine are available for recent Ph.D. graduates. Studies will focus on the molecular and cellular biology of the gastrointestinal system. Training in molecular biology is required. **Debra Silberg, M.D., Ph.D.** (e-mail: silberg@mail.med.upenn.edu); research directed at the discovery of genes induced in precancerous lesions of the stomach. Experience in approaches to detect differentially expressed genes is desirable. **EunRan Suh, Ph.D.** (e-mail: suher@mail.med.upenn.edu); studies focusing on the molecular mechanism of homeobox gene expression. Experience in techniques related to transcription regulation and protein/DNA interaction is desirable. E-mail, FAX, or mail curriculum vitae and names of three references to the researcher of interest: **University of Pennsylvania, 415 Curie Boulevard, 600 CRB, Philadelphia, PA 19104. FAX: 215-573-2024. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS

Postdoctoral positions available for motivated individuals to study a new generation of rhabdovirus-based HIV-1 vaccines, and rhabdovirus-based targeting vectors (*EMBO* 17:1289-1296, 1998; *Cell* 90:849-957, 1997). Ongoing projects require a strong theoretical and experimental training in immunology (e.g., CTLs) and molecular biology. Animal experiments are required, experience in virology is a plus. Please send curriculum vitae and three letters of recommendation to: **Matthias J. Schnell, Ph.D., Center for Human Virology, Thomas Jefferson University, Department of Biochemistry and Molecular Pharmacology, 1020 Locust Street, Suite 329, Philadelphia, PA 19107-6799. E-mail: matthias.schnell@mail.tju.edu.**

POSTDOCTORAL POSITIONS in genomics/plant molecular biology are available immediately to participate in a gene discovery program on the interaction between the plant pathogen *Phytophthora infestans* and host or nonhost plants. Outstanding background in molecular genetics or molecular biology required. Send curriculum vitae and names of three references to: **Dr. Sophien Kamoun, Department of Plant Pathology, The Ohio State University-Ohio Agricultural Research and Development Center, 1680 Madison Avenue, Wooster, OH 44691. E-mail: kamoun.1@osu.edu.**

POSITIONS OPEN



POSTDOCTORAL RESEARCH ASSOCIATE IN CELL SIGNALING

Position available immediately to study G-protein subunits involved in signaling and cellular differentiation using microinjection, transgenic mouse, and mutagenesis techniques. Ph.D. and experience in cell culture and cell signaling required. Send curriculum vitae and letters of reference to: **Dr. Hsien-yu Wang, Physiology and Biophysics, University Medical Center, SUNY/Stony Brook, NY 11794-8661. FAX: 516-444-7696; e-mail: wangh@pharm.sunysb.edu. Stony Brook is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIP IN CELLULAR IMMUNOLOGY NATIONAL CANCER INSTITUTE

Immediate openings exist for full-time Postdoctoral Training Fellowships in the Tumor Immunology Section, Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland to study the immune response to tumors in humans and in mice.

We seek candidates with experience in cellular immunology. Ongoing projects include the identification of new tumor-associated antigens, the study of immune tolerance to tumor-associated differentiation antigens, and the development of synthetic and recombinant anticancer vaccines.

Send cover letter, curriculum vitae, and statement of research interests to:

Steven A. Rosenberg, M.D., Ph.D.

Chief of Surgery
National Cancer Institute
Building 10, Room 2B42
Bethesda, MD 20892-1502
Telephone: 301-496-4164
E-mail: sar@nih.gov

Selections for these positions will be based solely on merit, with no discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization. The NIH is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is available immediately at a newly established laboratory to study cell cycle regulation in vertebrates. Both mammalian tissue culture cells and *Xenopus* egg extracts will be used as model systems to investigate the role of protein degradation in controlling mitosis. Experience in protein biochemistry and tissue culture techniques is desirable. Competitive salary and benefit package will be offered. Send curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Hongtao Yu, Ph.D., Department of Pharmacology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041. E-mail: hongtao.yu@email.swmed.edu; FAX: 214-648-2971. UT Southwestern is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION. A NASA-funded position is available to study the genetic and biochemical basis for radiation and desiccation resistance in extreme thermophiles, including *Archaea*. Experience in microbial genetics, physiology, and strain isolation are essential. Please send curriculum vitae and list of three references to: **Dr. DiRuggiero, Dr. Robb, Center of Marine Biotechnology, 701 East Pratt Street, Baltimore, MD 21202. E-mail: jocelyne@umbi.umd.edu; website: <http://www.umbi.umd.edu/~comb/index.html>. Equal Opportunity/Affirmative Action.**

POSTDOCTORAL POSITION is available immediately in an NIH-funded project to study G protein-coupled receptors in mast cells/basophils. Experience in molecular biology is essential. Interested applicants should send curriculum vitae to: **Hydar Ali, Ph.D., Department of Pathology, University of Pennsylvania School of Dental Medicine, 4010 Locust Street, Philadelphia, PA 19104-6002. E-mail: ali@path.dental.upenn.edu. University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP POSITION MASSACHUSETTS GENERAL HOSPITAL HARVARD MEDICAL SCHOOL

A Postdoctoral Fellowship is available to study basic cardiovascular biochemistry and physiology at Massachusetts General Hospital and Harvard Medical School. The multidisciplinary research in cardiac metabolism and disease, emphasizes novel applications of ¹³C NMR spectroscopy to elucidate molecular mechanisms of disease. Candidates will hold either M.D. or Ph.D. and have interest in NMR, isotope labeling and detection methodologies, biochemistry, or cardiac physiology. Background in mathematics or physics is helpful.

Candidates should submit a curriculum vitae and arrange for three letters of reference to:

E. Douglas Lewandowski, Ph.D.
Massachusetts General Hospital and
Harvard Medical School

NMR Center, Building 149, 13th Street, Room 2301
Charlestown, MA 02129

E-mail: doug@nmr.mgh.harvard.edu

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, especially toxins (see: *PNAS* 94:4056, 1997). 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 June 1, 1999. 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 75235-9048. FAX: 214-648-5905; e-mail: hansen01@utsw.swmed.edu. UT Southwestern is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION. Position available in March/April 1999 to study the molecular genetic and cellular mechanisms of glutamate-induced neuronal cell death using mouse genetic models. Applicants must have a Ph.D. with training in neuroscience or molecular genetics. Experience in mapping of genetic loci, Western blots, immunohistochemistry, *in situ* hybridization, receptor binding, and/or cell culture is desired. Prior experience in working with animal models is essential. Excellent oral and written communication skills, proficiency in English, and the ability to effectively interact in a multidisciplinary team are key. Send curriculum vitae, statement of research interests, and three references to: **Dr. Elyse Schauwecker, Department of Cell and Neurobiology, University of Southern California School of Medicine, BMT 401, 1333 San Pablo Street, Los Angeles, CA 90033. FAX: 323-442-3466; e-mail: schauwe@hsc.usc.edu. USC is an Equal Opportunity/Affirmative Action Employer.**

A POSTDOCTORAL FELLOW position is available immediately to study intracellular signaling events involved in the regulation of lymphocyte development and function. Current projects include (1) dissecting the immune responses *in vivo* using an animal model generated in this laboratory (*Immunity* 9:209-216, 1998); (2) generating and analyzing mice deficient in signaling molecules related to lymphocyte development and function using gene targeting technology (*PNAS* 95:15547, 1998). Candidates with a strong background in molecular biology, immunology, and biochemistry are invited to apply. Will accept applications two (2) months after this advertisement appears. Application should be sent to: **Dr. Hua Gu, Laboratory of Immunology, DIR, NIAID, NIH, 12441 Parklawn Drive, Rockville, MD 20852. NIH is an Equal Employment Opportunity Employer.**

POSTDOCTORAL VISITING SCHOLAR (Ph.D. or M.S.), and **GRADUATE STUDENT** positions in cellular physiology, pharmacology, and development of the visual system are available immediately to study neuronal interaction in the developing mammalian retina using patch-clamp, Ca²⁺ imaging, and computational modeling. Competitive salary. Contact: **Dr. Z. Jimmy Zhou, Departments of Physiology and Ophthalmology, MS 505, University of Arkansas for Medical Sciences, Little Rock, AR 72205. E-mail: zhoujimmy@exchange.uams.edu.**

MEETINGS

IRBM

8th Biennial International Congress on
Liver Development, Gene Regulation, and Disease
Palazzo del Popolo, Orvieto, Italy - June 2-5, 1999

Organizers: G. Ciliberto (IRBM) and M. Tripodi
(Università di Roma "La Sapienza")

Sessions and Speakers:

Signalling and Transcription: R. H. Costa
(Chicago), A. Kahn (Paris), M. Karin (La Jolla), V.
Poli (Dundee), M. Yaniv (Paris)

Control of Cell Cycle & Liver Mass Homeostasis:
G. J. Darlington (Houston), A. M. Diehl (Baltimore),
N. Fausto (Seattle), G. K. Michalopoulos
(Pittsburgh), J. R. Nevins (Durham), R. Taub
(Philadelphia), M. Tripodi (Rome)

Organogenesis: R. Di Lauro (Naples), S. A. Duncan
(Milwaukee), P. Gruss (Göttingen), M. C. Weiss
(Paris), K. Zaret (Providence)

**Molecular Biology and Immunology of Viral
Hepatitis:** R. De Francesco (Rome), F. V. Chisari
(La Jolla), M. G. Katze (Seattle), A. Nicosia (Rome)

Metabolism: R. W. Hanson (Cleveland), G. Schütz
(Heidelberg), H. Towle (Minneapolis)

Gene Therapy: G. Ciliberto (Rome), M. Kay
(Seattle), F. Mavilio (Milan), I. Verma (La Jolla)

**Deadline for Applications, Accommodation and
Poster Presentations:** March 2nd, 1999

Registration Fee: 900,000 Italian Lira

For further information, depending on the specific
needs:

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the Scientific Secretariat
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tel. +39-06-91093 655
fax. +39-06-91093654
e-mail:
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http://www.irbm.it



University of Zürich

The Institute of Zoology
invites applications for a

Research Position in Conservation Biology

Our research focuses on the behavioural ecology of small mammals, and we use behavioural, physiological, and molecular genetic methods to study the adaptability of social behaviour (further information can be found on our home page: <http://www.unizh.ch/zool/Divisions/etho/etho.html>). We combine our scientific interest with aspects relevant to wildlife management and conservation and are looking for a zoologist who will strengthen that goal in our group.

Applicants must have a Ph.D.; some postdoctoral experience is advantageous. The successful candidate is expected to develop an active research programme in behavioural ecology or population biology that is relevant to the conservation of animal species; to collaborate with the Zoo Zürich in its function as a centre for the conservation of animals and habitats; and to participate in the teaching programme of the Zoological Institute. The position is for a period of three years (extension is possible for maximally three further years).

Applications including a full CV, list of publications, description of research goals, and three letters of reference should be sent until April 15th to:

Prof. Barbara König, Zool. Institute Universität Zürich, Winterthurerstr. 190,
CH-8057 Zürich (Switzerland)
Tel +41-1-635 52 70, Fax +41-1-635 54 90, Email bkoenig@zool.unizh.ch

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University of Basel

The Biozentrum of the University of Basel establishes a Bioinformatics Program and seeks to appoint two Professors by January 1, 2000.

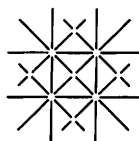
Bioinformatics Professorships

The level of appointment will depend on the qualification of the candidate. Research fields of interest include genomics, proteomics, protein structure prediction, dynamic simulation of biomolecules, and modeling of cellular processes. The Program will be independent, yet integrated within current biological and medical research programs at the University of Basel. It will also be embedded in a Computational Sciences Network with joint teaching activities involving the Biozentrum, and the Departments of Chemistry, Mathematics, and Physics.

Applicants interested in developing this new Center of Excellence in Bioinformatics and in creating a strong research – and teaching program are requested to send their Curriculum Vitae, a publication list, reprints of five key papers, names and addresses of three references, and descriptions of past and future research to the address listed below by March 31, 1999. Applications by female scientists are particularly encouraged.

Professor Stefan Schmid
Dekan der philosophisch-naturwissenschaftlichen Fakultät
der Universität Basel
Missionsstrasse 64
CH-4055 Basel
Switzerland

For additional information please contact
aengel@ubaclu.unibas.ch



UNI
BASEL

POSITIONS OPEN



POSTDOCTORAL FELLOW

A Postdoctoral position is available immediately to study induction of neutralizing antibodies against HIV using a VEE replicon system and will involve a close collaborative relationship with the Principal Investigator to support an ongoing funded research effort. This position is located in the Department of Preventive Medicine, Uniformed Services University of the Health Sciences, Bethesda, Maryland. We are seeking a candidate with a M.D. or Ph.D., three to five years of experience, and a strong background in molecular virology. We are a non-profit organization providing support services to the military medical community and offer a competitive salary and generous benefits package. Send curriculum vitae to: **Human Resources Department, Attn: PL#2980546**

**Henry M. Jackson Foundation
for the Advancement of Military Medicine
1401 Rockville Pike, Suite 600
Rockville, MD 20852
E-mail: hr@hjff.org**

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NATIONAL RESEARCH COUNCIL POSTDOCTORAL AND SENIOR RESEARCH AWARDS

The National Research Council offers awards for postdoctoral scientific research to be conducted in residence at participating U.S. government laboratories. Awardees design their own projects to be compatible with the overall interests of the sponsoring laboratory. Stipends for recent Ph.D. recipients range from \$30,000 to \$50,000 depending upon sponsoring laboratory and are appropriately higher for additional experience. Application deadlines are April 15, 1999, for review in late June 1999, August 15, 1999, review in late October 1999, and January 15, 2000, for review in late February 2000. For further information and application materials, contact: **The Associateship Programs, National Research Council (TJ 2114/SS), 2101 Constitution Avenue N.W., Washington, DC 20418. Website: <http://rap.nas.edu>; e-mail: rap@nas.edu; FAX: 202-334-2759; Telephone: 202-334-2760. Qualified applicants will be reviewed without regard to race, creed, color, age, sex, or national origin.**

POSTDOCTORAL POSITIONS available immediately to conduct studies into (1) the role of class I molecules in autoimmunity; (2) the molecular and immunogenetic basis of allograft rejection and graft versus host disease. Applicants should have strong training in molecular genetics and/or immunology, and be eager to develop expertise in exploiting the mouse model to address fundamental questions in immune regulation/dysregulation. Send curriculum vitae, interests, and letters of recommendation to: **Derry Roopenian, Staff Scientist, The Jackson Laboratory, Bar Harbor, ME 04609.** The Jackson Laboratory provides an optimal training environment in mammalian genetics and is situated amongst the scenic splendor of Acadia National Park and the ocean.

POSTDOCTORAL POSITION DANA-FARBER CANCER INSTITUTE HARVARD MEDICAL SCHOOL

A Postdoctoral position is available to study basic mechanisms in the pathogenesis of human autoimmune diseases. Experience in protein chemistry and/or molecular biology is required. Please send curriculum vitae and names of three references to: **Dr. Kai Wucherpfennig, Department of Cancer Immunology and AIDS, Dana-Farber Cancer Institute, D1410, 44 Binney Street, Boston, MA 02115. E-mail: wucherp@mbcr.harvard.edu. We are an Equal Opportunity Employer.**

POSTDOCTORAL POSITION available in the Pulmonary and Critical Care Unit at the Massachusetts General Hospital. Scientist will participate in research involving isolation, fractionation, and characterization of proteoglycans in normal and hypoxic lungs. *U.S. citizenship or permanent residence required.*

Send curriculum vitae to: **Charles A. Hales, M.D., Pulmonary and Critical Care Unit, Massachusetts General Hospital, Bulfinch 148, 55 Fruit Street, Boston, MA 02114-2696. FAX: 617-726-6878.**

POSITIONS OPEN

UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE

The University of South Carolina (USC) School of Medicine has recently established a research initiative in cardiovascular sciences and cancer biology. Several **FACULTY** and **POSTDOCTORAL POSITIONS** have been established to promote basic science and clinical interactions. These positions include:

(1) Cardiovascular sciences. Tenure-track and Research Assistant Professor positions using developmental, molecular, or physiological approaches to cardiovascular problems.

(2) Women's health and health promotion. Tenure-track position in cooperation with the South Carolina Cancer Center and USC's Women's Studies Program for an individual to teach and conduct research in area of cancer biology.

(3) Cancer biology. Research Assistant Professor position for an individual using developmental approach to cancer biology.

(4) Neuroscience/cardiovascular physiology. Tenure-track position with the department of physiology and pharmacology.

Tenure-track position candidates are expected to have established research funding. Postdoctoral positions are available in cardiovascular sciences, neurophysiology, and cancer biology. Send curriculum vitae, and names and addresses of three references to: **Search Committee, Developmental Biology and Anatomy, University of South Carolina School of Medicine, Columbia, SC 29208. Visit website: <http://www.med.sc.edu>. The University of South Carolina is an Affirmative Action/Equal Opportunity Employer.**

A POSTDOCTORAL POSITION is available immediately in the Division of Immunogenetics, Department of Pathology, Columbia University. The project involves study of MHC class I signal transduction in human endothelial cells and smooth muscle cells. Specific areas of investigation include *in vitro* and *in vivo* characterization of class I mediated alterations in endothelium and smooth muscle and analysis of intracellular signaling pathways. Candidates should have a recent Ph.D. degree in biochemistry, cell biology, or a related discipline and be skilled in signal transduction and protein characterization. Please forward curriculum vitae, statement of research interests, and names of three references to: **Dr. Elaine Reed, Associate Professor, Department of Pathology, College of Physicians and Surgeons of Columbia University, 630 West 168th Street, New York, NY 10032. E-mail: efr1@columbia.edu; FAX: 212-305-3429. Columbia University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL/DOCTORAL TRAINEES UNIVERSITY OF CALGARY

Applications are sought for an established laboratory being transferred from McGill University to the University of Calgary. Projects are (a) mechanism of neuron death and a metabolic bypass for the treatment of Tay-Sachs disease using mouse models and (b) gene cloning, genetic disease, and disease predisposition in biotin and folate/vitamin B12 metabolism. Please send curriculum vitae, statement of interests, and three references to: **Roy Gravel, Ph.D., McGill University-Montreal Children's Hospital Research Institute, 2300 Tupper Street, Montreal, Quebec H3H 1P3 Canada. FAX: 514-934-4331; e-mail: mc84@musica.mcgill.ca.**

POSTDOCTORAL POSITIONS. The cell and molecular biology of colon cancer: colonic cell differentiation, cell-cycle regulation, apoptosis, and aberrancies in the initiation and progression of colon cancer. Studies encompass cell culture, mouse genetic models, and human populations. Reply by submitting curriculum vitae and names of two to three references to: **Leonard Augenlicht, Director, Molecular Oncology, Albert Einstein Cancer Center, 111 East 210th Street, Bronx, NY 10467.**

A POSTDOCTORAL POSITION is available to study the role of DNA virus proteins in tumorigenesis. Candidates should have experience in biochemical and molecular biological methodologies. A knowledge of transcription or replication mechanisms is desirable. Please send curriculum vitae with the names of three references to: **Robert Ricciardi, Department of Microbiology, Levy Research Building, 4010 Locust Street, Philadelphia, PA 19104. FAX: 215-898-8385; e-mail: ricciardi@biochem.dental.upenn.edu.**

POSITIONS OPEN



POSTDOCTORAL FELLOW

A Postdoctoral position is available with the international HIV Research Program located in Rockville, Maryland under **Dr. Josephine H. Cox**. Research will include evaluation of cellular immunity and the role of cytotoxic T lymphocytes (CTL) in HIV disease. A particular emphasis is on the role of cross-reactive CTL and their importance in protection induced by HIV vaccines that are being tested around the world (Lynch et al, *JID* 1998). Projects involved in improving HIV vaccine efficacy and delivery will be emphasized. Vaccines will be tested in non-human primates and mice and ultimately in humans. We offer a competitive salary and generous benefits package. Interested applicants should send a curriculum vitae and the names of two references to:

**Human Resources Department, Attn: PL4980430
Henry M. Jackson Foundation
for the Advancement of Military Medicine
1401 Rockville Pike, Suite 600
Rockville, MD 20852
E-mail: hr@hjff.org**

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POSTDOCTORAL POSITION UCLA/DEPARTMENT OF PHYSIOLOGY

Available immediately to study cell signaling, hormonal regulation, gene expression, and differentiation in a previously uncharacterized mouse epithelial cell type. Current laboratory interests include cell isolation, mechanisms of cell-cell interactions, calcium signaling, membrane transport, and protein structure-function studies. Individuals with a strong background in cell biology and biochemistry are preferred. Our laboratory provides a strong interdisciplinary environment for innovative research. Send curriculum vitae and names of three references to:

**Dr. George Sachs, Director
Membrane Biology Laboratory
West Los Angeles VA Medical Center
11301 Wilshire Boulevard
Building 113, Room 324
Los Angeles, CA 90073**

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POSTDOCTORAL POSITION IN DEVELOPMENTAL BIOLOGY

A Postdoctoral position is available to study pattern formation in *Drosophila*. Candidates must have a Ph.D. and/or M.D. with a strong background in molecular biology or fly genetics. Send curriculum vitae and names of three referees to:

**Andrew Tomlinson
Department of Genetics and Development
College of Physicians and Surgeons
Columbia University
701 West 168th Street
New York, NY 10032
E-mail: tomlinson@cucfa.ccc.columbia.edu**

Columbia University takes Affirmative Action to ensure Equal Employment Opportunity.

POSTDOCTORAL POSITION funded by ACS available immediately to study protein DNA: recognition and engineering of new DNA binding function using phage display, structural modeling, and rationale design, for the purposes of developing anticancer protein therapeutics (see: *NAR* 27:4, 1999). Strong background in molecular biology and protein:DNA interactions desirable. Send curriculum vitae and names of three references to: **Dr. Christopher Francklyn, Department of Biochemistry, University of Vermont College of Medicine, Burlington, VT 05405. FAX: 802-862-8229; e-mail: franck@emba.uvm.edu.**

POSTDOCTORAL POSITION is available immediately for studying the role of acetylcholine in vertebrate visual system processing and plasticity. Experience with patch-clamping techniques is desirable. Please send a curriculum vitae and the names of three references to: **Dr. Elizabeth Debski, School of Biological Sciences, University of Kentucky, Lexington, KY 40506-0225. E-mail: debski@pop.uky.edu; FAX: 606-257-1717. Equal Opportunity Employer.**

Combinatorial Biology in Drug Discovery

MorphoSys AG is a leading German biotech company located in Munich. We are dedicated to the generation of human antibodies from our human combinatorial antibody library for target validation, diagnostic as well as therapeutic purposes. We offer a stimulating environment for scientists interested in developing and applying new technologies in pharmaceutical discovery.

Due to the expansion of our business we are offering the following positions:

PROJECT LEADER

Job code TIK1

in the area of human antibody generation

The successful candidate will be in charge of project planning and monitoring, leading a team of highly motivated and ambitious PhDs and technicians, and communicating with collaborators. The applicant is expected to have a track record in international project managing. Knowledge of antibody generation by in vitro methods is a plus. German language skills are not required.

For further details on the position, please contact Dr. Titus Kretschmar by email (titik@morphosys.de).

CHEMIST/BIOCHEMIST

Job code PPA3

As a PhD with a strong background in the physical characterization of biomolecular interactions, applicants should have 3 or more years hands-on experience with techniques such as ELISA, fluorescence spectroscopy, micro-calorimetry, ultra-centrifugation or SPR (BIAcore). Using state-of-the-art equipment, the successful candidate will be responsible for the collection and evaluation of affinity data within a team of skilled PhDs and technicians. German language skills are not required.

For further details on the position, please contact Dr. Peter Pack by email (pack@morphosys.de).

MorphoSys' facilities are located in the newly established Biotechnology/Biomedicine campus which includes the Max-Planck Institutes, Munich Gene Centre and University hospitals. We have close links to leading research institutions and a policy of encouraging publication in leading journals. MorphoSys offers a competitive compensation and benefits package. To join our team of highly motivated scientists in the creative environment of one of Europe's most exciting biotechnology companies, please send your CV and two letters of recommendation, indicating the job code to:

The Personnel Manager
MorphoSys AG
Am Klopferspitz 19
82152 Martinsried / Munich, Germany
<http://www.morphosys.de>

Medical Research Council

POSITIONS IN MOLECULAR NEUROLOGY

Applications are invited for two postdoctoral positions and one research assistant position to work on the production of experimental models of common neurodegenerative diseases, such as Alzheimer's disease and Parkinson's disease. Candidates should have a background in molecular biology, biochemistry and/or neurobiology, with a strong interest in neurodegenerative diseases. These posts are funded by the Alzheimer's Research Trust and available for up to five years. The work is a collaboration between the MRC Laboratory of Molecular Biology (Dr. M. Goedert), the Department of Neurology, University of Cambridge (Dr. M.G. Spillantini) and the Babraham Institute (Drs. P.C. Emson and L.S. Wilkinson).

The two postdoctoral positions (Ref: NB/MG1) will be appointed to MRC Salary Band 4 (£15,500 – £28,900 per annum) with the starting salary likely to be in the region of £18,100 – £26,000 per annum depending on qualifications and experience. The research assistant position (Ref: NB/MG2) Band 5 (£13,000 – £24,800 per annum) is likely to have a starting salary between £14,000 – £18,000 per annum. The starting salary is supported by a performance-related pay scheme and MRC Pension Scheme. The site has excellent sports and social facilities.

Further information can be obtained from Dr. Michel Goedert (01223) 402036. E-mail: mg@mrc-lmb.cam.ac.uk

Applications by 12 March 1999 should include two copies of a full CV with the names, addresses and e-mail/fax numbers of two professional referees quoting the appropriate reference (as above) to: Johanna Webb, Personnel Officer, MRC Centre, Hills Road, Cambridge, CB2 2QH.

Some financial assistance with relocation may be available.

The Medical Research Council is an Equal Opportunities Employer and operates a strict no-smoking policy.



Bioinformatics Group Leader

Applications are invited for a group leader in the field of bioinformatics at the Research Institute for Molecular Pathology (IMP) in Vienna, Austria. The IMP consists of 13 interactive research groups that address problems in cell biology, cell cycle regulation, tumor development, growth control, and developmental biology using a variety of model organisms including mouse, yeast, worm, chicken and fly.

We invite applications from bioinformatics scientists who, in addition to developing their own independent research program, has a strong interest in solving biological problems in collaboration with existing research groups at the IMP. In particular we seek a scientist who is able to work with complex data sets that emerge from whole genome sequencing projects including DNA chip-based expression profiling.

We offer a competitive salary and provide all necessary research support including positions for two Ph.D. students. The initial appointment will be for three years with a possibility for a prolongation for a further five years.

Applicants should submit a CV, a letter describing his/her ability to contribute to collaborative research endeavors, and a brief summary of research interests, and three reference letters to: Dr. Michael Glotzer, Research Institute of Molecular Pathology, Dr. Bohr-Gasse 7, A-1030 Vienna, AUSTRIA

For further information see www.imp.univie.ac.at or contact mglotzer@nt.imp.univie.ac.at

Applications are invited for internally funded Ph.D. student fellowships in the Friedrich Miescher Institute (FMI).



Applications: For forms and further information contact: w.w.w.: <http://www.fmi.ch>
e-mail: secretary@fmi.ch • Fax: +41 (61) 697 39 76 • International Ph.D. Program
Friedrich Miescher Institute • Maulbeerstrasse 66 • CH-4050 Basel • Switzerland
Deadlines for applications: March 15, 1999 • October 1, 1999

Gene Expression

RNA processing and modification (W. Filipowicz)
Molecular plant virology (T. Hohn)
Epigenetic mechanisms of gene regulation:
role of DNA methylation (J.-P. Jost)
Transcriptional control by cell-specific coactivators and immune system regulation (P. Matthias)
Signal transduction and the plasminogen activator system (Y. Nagamine)

Cancer and Growth Control

Membrane function in cell-cell recognition and cancer (M. Burger)
Molecular mechanisms of cell-extracellular matrix interactions (R. Chiquet-Ehrismann)
Molecular aspects of protein phosphorylation and signal transduction (B. Hemmings)
Mammalian ribonucleases and ribonuclease inhibitor (J. Hofsteenge)
Breast cancer and normal mammary gland biology (N. Hynes)
The molecular biology and physiology of cell cycle control (W. Krek)
Integration of signaling pathways controlling cell growth and proliferation (G. Thomas)

Molecular Neuroscience

Plasticity of neuronal connections (P. Caroni)
Molecular mechanisms of neuronal plasticity (A. Matus)
Modulation of neural functions by serine proteases and their inhibitors (D. Monard)
Molecular mechanisms of mammalian nervous system development (U. Müller)

Plant Molecular and Cellular Biology

Chemical signalling in plants (T. Boller)
Inter-cellular communication in plants (M. Heinlein)
Genetic flux in plants (B. Hohn)
Plant development and defense reactions against pathogens (F. Meins Jr.)
Homologous recombination and gene silencing in plants (J. Paszkowski)
Developmental genetics of sexual plant reproduction and apomixis (U. Grossniklaus)

Theoretical and Computational Biology

Mathematical population dynamics of virus infections and the evolution of drug resistance (S. Bonhoeffer)

International Ph.D. Program

FMI is a foundation sponsored by Novartis devoted to basic research in biological and biomedical sciences, offering excellent research facilities in an international competitive environment. Students are enrolled at the University of Basel and benefit from a graduate-level teaching program taught by the FMI and the University.

Basel is a major international center for research in biology, with outstanding academic institutions, including the University of Basel, comprising the Biocenter and the Department of Integrative Biology, the Basel Institute of Immunology, and the FMI. Basel is also the headquarters and major research center of the leading Life Science companies Novartis and Roche.

FORUM



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for Economic Affairs, Transport
and Technology

POSITIONS OPEN

Position funded by NIH is available immediately to investigate an animal model of inflammation. Ph.D. is helpful. Experience in molecular biology/biochemistry/signal transduction (PCR, gel shift assay, various kinase assays, Western, Northern, and Southern blots, and production of transgenic mice, etc.) is required. Please send letter of application, curriculum vitae, and addresses of three references to: **Dr. Georgia Schuller-Levis, New York State Institute for Basic Research, 1050 Forest Hill Road, Staten Island, NY 10314. FAX: 718-494-4884; e-mail: ckpark@admn.com2.com. Equal Opportunity/Affirmative Action Employer.**

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Medical ed/advertising agency seeks full-time Clinical Writer. Monographs, M.D. interviews, patient education, some promotional. Minimum two years of experience plus advanced science degree. PC literacy, thorough knowledge of oncology essential; immunology a plus. Send résumé with salary requirement to: **Senior Director Scientific Services—Confidential, 361 Broadway, Department S, Suite 500, New York, NY 10013.**

WORKSHOP

CALL FOR PARTICIPANTS

Design Principles for the Immune System and Other Distributed Autonomous Systems
Workshop July 11-16, 1999
Santa Fe Institute, Santa Fe, New Mexico
Lee Segel, Weizmann Institute, Workshop Chair

The Workshop will focus on the principles that guide the effective operation of distributed autonomous systems, with a strong but not exclusive emphasis on the immune system. Topics include design principles for the immune system; problems of effector choice (task allocation) in the immune system and other distributed autonomous systems; and organization of signaling networks in these systems.

Approximately 20 junior participants will be invited to attend based on competitive applications. Senior scientists participate by invitation only. To apply send a current curriculum vitae, list of publications, and two letters of recommendation. Application materials should be sent by postal mail to: **Immune System Workshop, Attention: Christine Gonzales, Santa Fe Institute, 1399 Hyde Park Road, Santa Fe, NM 87501. Application deadline: May 1, 1999.**

Questions can be addressed to e-mail: **cg@ santafe.edu**. Santa Fe Institute, website: **http://www.santafe.edu**. Women and minorities are encouraged to apply.

COURSES

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TOXICOLOGY GRADUATE PROGRAM

The Interdisciplinary Graduate Program in the Institute of Chemical Toxicology, Wayne State University offers a Ph.D. degree and research experience in molecular and cellular toxicology. Focus areas include receptor-mediated cell signaling, regulation of cell cycle, and apoptosis; environmental toxicants and cell-cell interactions; DNA damage and repair mechanisms; transgenic/gene knockout and oxidative stress; molecular genetics; regulation of gene expression; metabolism of environmental chemicals; immunotoxicology; and mechanisms of metals toxicity.

Tuition costs are generally defrayed by competitive Graduate Assistantships and Fellowships. For information contact: **Dr. M. Runge-Morris, Admissions Director, Institute of Chemical Toxicology, 2727 Second Avenue, Detroit, MI 48201. Website: http://www.wayne.edu/ict. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply. Wayne State University—people working together to provide quality service.**

GLOBAL OPPORTUNITY



TENURE-TRACK POSITION THE HEBREW UNIVERSITY HADASSAH MEDICAL SCHOOL Jerusalem, Israel

The Faculty of Medicine calls for applications for tenure-track positions that will be available starting October 1999. Ph.D. and/or M.D. degrees and postdoctoral training are required. Excellence in research and teaching experience will be of prime importance for decisions of the search committee. Candidates are expected to develop independent research and take part in teaching commitments in one of the following fields: cell and developmental biology, mammalian genetics, bioinformatics and biomolecular modeling, parasitology, virology, or cardiovascular physiology. Applications including curriculum vitae, list of publications, three to five selected reprints, a plan of research, and three letters of recommendation should arrive at: **The Office of the Dean, P.O. Box 12272, Jerusalem 91120 Israel by April 30, 1999.**

TENURE-TRACK POSITION AT THE SCHOOL OF PHARMACY DEPARTMENT OF PHARMACOLOGY The Hebrew University Faculty of Medicine Jerusalem, Israel

The School of Pharmacy in the Faculty of Medicine invites applicants for an academic tenure-track position in pharmacology to be available for the academic year 1999-2000. Ph.D. and/or M.D. degree and postdoctoral training in a relevant field of research are required. Excellence in research and expertise in modern aspects of cellular and molecular pharmacology or related fields will be of prime importance in the decision of the search committee. Candidates are expected to develop independent research and participate in teaching undergraduate and graduate students in the following fields: general pharmacology, clinical pharmacology, clinical pharmacy, therapeutics, and toxicology.

Applicants should submit a curriculum vitae, list of publications, three to five selected reprints, statement of research activities and research plans, and three letters of recommendation to: **The Dean's Office, P.O. Box 12272, Jerusalem 91120 Israel no later than May 15, 1999.**

SEMINAR

THE TRINITY SEMINAR, 1999-2000

The Trinity College Center for Collaborative Teaching and Research announces its Trinity Seminar for 1999-2000. We invite nominations, including self-nominations, of recent Ph.D.'s (or relevant terminal degree) in any discipline to deliver a formal research paper or appropriate performance presentation and spend two days in discussions with colleagues and students on campus in Hartford, Connecticut during the 1999-2000 academic year. We seek nominees who are doing especially exciting, innovative work, who are interested in engaging an interdisciplinary audience, and who will convey to us an informed access to recent issues and controversies in their respective disciplines. Travel expenses and an honorarium will be provided. Please submit the nominee's curriculum vitae, brief description of current research, and a one-page abstract of proposed paper or presentation to: **Drew A. Hyland, Director, Trinity Center for Collaborative Teaching and Research, Trinity College, Hartford, CT 06106. E-mail: drew.hyland@trincoll.edu. We will begin reviewing applications in April 1999.**

GRANTS

FUNDS FOR STUDY OF TWO RARE DISEASES

The National Organization for Rare Disorders, Inc. (NORD) announces the availability of funds for **CLINICAL RESEARCH GRANTS** on essential thrombocythemia and hereditary tyrosinemia type 1. Grants not to exceed \$31,000 for up to two years for essential thrombocythemia, and \$66,000 for hereditary tyrosinemia type 1 will be awarded. A one-page letter of intent, curriculum vitae, and brief budget outline due by June 1, 1999, to: **Director of Development, National Organization for Rare Disorders, Inc., P.O. Box 8923, New Fairfield, CT 06812. Telephone: 203-746-6518; FAX: 203-746-6896.**

EUROPEAN OPPORTUNITY

FACULTY POSITION AT THE FACULTY OF CHEMISTRY THE UNIVERSITY OF HEIDELBERG

The Institute of Physical Chemistry invites applications for a **C3-PROFESSORSHIP** in biophysical chemistry.

The successful candidate is expected to conduct independent research in biophysical chemistry complementary to the existing research activities in the Faculty of Chemistry. Teaching duties are in the area of biophysical chemistry and general physical chemistry. Applicants should possess a Ph.D. degree, a "Habilitation" or equivalent qualification. The salary will conform to the C3 level of the German civil service code.

Please send your application (including curriculum vitae, list of publication and teaching activities, authenticated copies of documents) to: **The Dean of the Faculty of Chemistry, University of Heidelberg, Im Neuenheimer Feld 234, Heidelberg D-69120 Germany by April 15, 1999.**

The University of Heidelberg would like to increase the number of women in faculty positions and encourages qualified women to apply.

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Radiation Hybrid Mapping Panels

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Human Panels:

Stanford G3¹ Human/Hamster RH Panel - Catalog # RH01

Stanford TNG Human/Hamster RH Panel - Catalog # RH03

GENEBRIDGE 4² Human/Hamster RH Panel - Catalog # RH02

The medium resolution Stanford G3 panel and the high resolution Stanford TNG panel were created at the Stanford Human Genome Center. A server for the chromosome localization of markers using the G3 panel is available at <http://www-shgc.stanford.edu>. A limited server for chromosome localization of markers for the TNG panel is found at <http://www-shgc.stanford.edu/RH/TNGindex.html>.

The low resolution GENEBRIDGE 4 panel is a subset of the 199 clone panel developed in a collaboration between the labs of Peter Goodfellow and Jean Weissenbach. Chromosome localization of markers may be performed by accessing the server at <http://www-genome.wi.mit.edu>.

Additional Panels:

Mouse/Hamster RH Panel - Catalog # RH04

Baboon/Hamster RH Panel - Catalog # RH05

Zebrafish/Hamster RH Panel - Catalog # RH06

Rat/Hamster RH Panel - Catalog # RH07

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Porcine/Hamster RH Panel - Catalog # RH09

The mouse, baboon, zebrafish, rat and canine panels all originated in Peter Goodfellow's lab at Cambridge University. The porcine panel was made in Alan Archibald's lab at the Roslin Institute. The panels are all formatted to fit into a 96-well format and all have retention rates averaging 25-30%.

Ref: 1. Stewart, E. et al (1997) *Genome Research* 7 422-433.

2. Gyapay, G. et al (1996) *Human Molecular Genetics* 5 339-346.



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