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For **MEETINGS AND ANNOUNCEMENTS** display advertisements, see page 851.

LINE CLASSIFIED ADVERTISEMENTS

How to Submit a Line Classified Ad: Submit double-spaced typewritten copy. Do not include any abbreviations. SCIENCE will edit and typeset ads according to SCIENCE guidelines. Include billing information and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Services. SCIENCE cannot provide proofs of typeset line ads. Line advertisements are not commissionable.

Estimates: SCIENCE will provide a cost estimate for line ads. This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.

For line advertising deadlines, call Eric Banks. Telephone: (202) 326-6555; FAX: (202) 289-6742. Email: science_classifieds@aaas.org

Credit Cards: SCIENCE accepts American Express, MasterCard and VISA. Discount does not apply to credit cards.

Cancellations: Deadline for cancellation is Tuesday, 10 days prior to issue date.

Discounts: A 3% cash discount is granted to all prepaid ads.

Ads from Outside the U.S.: A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Debbie Cummings. Telephone: +44(0) 1223 302067; FAX: +44(0) 1223 576208.

SCIENCE Professional Network: Unless otherwise instructed, every classified advertisement submitted for publication in SCIENCE is automatically posted on SCIENCE's on-line classified advertising service, SCIENCE Professional Network, at no additional charge.

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SCIENCE Classified Advertising
1200 New York Avenue, N.W., Room 911
Washington, DC 20005
FAX: 202-289-6742

Email: science_classifieds@aaas.org (please include your telephone number in Email)

SCIENCE reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

DIRECTOR ARIZONA VETERINARY DIAGNOSTIC LABORATORY

The Arizona Veterinary Diagnostic Laboratory (AVDL), Department of Veterinary Science and Microbiology, College of Agriculture, University of Arizona, seeks an accomplished veterinary pathologist for a **FULL-TIME FACULTY** appointment as Director. AVDL is a full-service laboratory accredited by the American Association of Veterinary Laboratory Diagnosticians, and provides assistance in the diagnosis and control of animal diseases to: veterinarians; owners of livestock, poultry and companion animals; state and federal wildlife officials; local zoos; university researchers; regulatory officials; and extension personnel, throughout the State of Arizona and southwest region. AVDL is also integrally involved in the research, teaching, and service missions of the department. Following completion of a new 14,000 square foot, state-of-the-art facility to house AVDL in 1995, the department and college continue a commitment to achieve programmatic excellence by providing the additional faculty, staff, and operational resources required. The Director will devote significant effort to leadership of AVDL missions and programs, and participate in the diagnostic pathology service. Research experience and administrative abilities appropriate to directing an accredited state veterinary diagnostic laboratory are necessary, and ample opportunity to maintain a research program and collaborate with the infectious disease-oriented faculty of the department will be provided. Excellent communication and leadership skills, commitment to the laboratory's diagnostic service role, and demonstrated scholarly ability are essential. The D.V.M. and Ph.D. degrees, and board certification in Veterinary Pathology by the American College of Veterinary Pathologists are required. Salary and rank are commensurate with qualifications and experience. The starting date is October 1, 1997, or as soon thereafter as possible. Applicants should submit a letter describing qualifications, interests, accomplishments, and long-term goals in veterinary pathology and research; a curriculum vitae; and the names and addresses of three references to: **Dr. Michael W. Riggs, Chair of the Search Committee, Department of Veterinary Science and Microbiology, Veterinary Science/Microbiology Building, University of Arizona, Tucson, AZ 85721.** Review of applications will begin June 1, 1997; applications will be accepted until a suitable candidate is identified. *The University of Arizona is an Equal Opportunity/Affirmative Action Employer.*

DIRECTOR OF HISTOCOMPATIBILITY AND MOLECULAR DIAGNOSTICS LABORATORY

The Pathology Department of Baylor College of Medicine is recruiting for a **FULL-TIME FACULTY** position at The Methodist Hospital and Baylor College of Medicine, Houston, Texas. This histocompatibility laboratory performs HLA testing and DNA diagnostic studies for expanding bone marrow, peripheral blood progenitor cell, cord blood, and solid organ transplant programs. The candidate should have an M.D. and/or Ph.D. degree, and must meet ASHI and UNOS standards for serving as a director of a histocompatibility testing laboratory. M.D. candidates must have or be able to obtain Texas medical licensure. Excellence in providing clinical service is the main requirement for this position, but preference will be given to candidates with strong academic and research programs, including independent research funding. Rank and salary will be commensurate with the candidate's qualifications. Please send curriculum vitae and inquiries addressed to: **Michael W. Lieberman, M.D., Ph.D., Chairman, Department of Pathology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Telephone: 713-798-4661.**

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

ASSISTANT PROFESSOR OF ENTOMOLOGY

Research (75%), Teaching (25%). Conduct importation biological control of arthropod pests in managed ecosystems, and perform supplementary research in arthropod population or quantitative genetics addressing aspects of importation biological control. Mail résumé, letter of application (addressing teaching, research, and service), and five letters of reference to: **J. W. Smith, Search Committee Chair, Department of Entomology, Texas A&M University, College Station, TX 77843-2475.** For additional information: Telephone: 409-845-9717; FAX: 409-845-7977; Email: jwsmith@tamu.edu. Closing date: May 31, 1997.

POSITIONS OPEN

YALE UNIVERSITY DEPARTMENT OF BIOLOGY

The Biology Department of Yale University is seeking candidates for a tenured position at the level of **ASSOCIATE** or **FULL PROFESSOR**. In addition to internal candidates, we are seeking qualified individuals with demonstrated interest and experience in the area of cellular neurobiology. Candidates should have a strong interest in both undergraduate and graduate teaching. Suitable areas of expertise include neuronal cytoskeletal dynamics and advanced imaging techniques, membrane dynamics, and growth cone-target interactions.

Please send curriculum vitae, description of research interests and the names and addresses of at least three referees by June 15, 1997 to: **Cellular Neurobiology Search, c/o Chair, Biology Department, Yale University, P.O. Box 208103, New Haven, CT 06520-8103.**

Yale University is an Affirmative Action/Equal Opportunity Employer. Women and minorities of minority groups are especially urged to apply.

POPULATION GENETICIST/ EVOLUTIONARY BIOLOGIST

One-year temporary, **ASSISTANT PROFESSOR** position starting August 1997. Ph.D. required. Teaching and postdoctoral research experience desirable. The successful candidate will participate in undergraduate courses in introductory biology and genetics. The appointee will join a biology faculty deeply involved in creating a strong research-oriented program for upper class undergraduate students, and will contribute to this effort. Applications are especially encouraged from candidates whose research focuses on population genetics and evolutionary biology using molecular techniques. Please forward a letter of application with curriculum vitae, transcripts, a statement of teaching interests and arrange to have three letters of recommendation sent by May 23, 1997 to: **Dr. Randall Fuller, Chair, Department of Biology, Colgate University, Hamilton, NY 13346-1398.** *Women and minorities are especially encouraged to apply. Colgate University is an Equal Opportunity/Affirmative Action Employer.*

ASSOCIATE DIRECTOR FOR RESEARCH AND COLLECTIONS National Museum of Natural History Smithsonian Institution

The National Museum of Natural History, Smithsonian Institution, the world's largest natural history museum, seeks candidates worldwide for the position of **ASSOCIATE DIRECTOR** for Research and Collections. The successful candidate will oversee and direct a scientific research and collections program involving over 100 researchers and 120 million objects, as well as provide strategic guidance in integrating research and educational activities for the nearly six million people who visit the Museum each year. The Museum will maintain and increase its world class scientific and collections program and provide intellectual and institutional leadership in the disciplines in which the Museum conducts research. To realize these aspirations, the Museum will undertake a major capital campaign to endow elements of the research program, upgrade a number of exhibit halls, and extend the reach of its public education. Candidates should possess a distinguished record of scientific achievement in an area of research carried out at the Museum, and have experience in positions of scientific leadership and advocacy. For complete information and application package write to: **Mr. Tom Lawrence, Office of Human Resources, Smithsonian Institution, 955 L'Enfant Plaza, S.W., Suite 7100, Washington, D.C. 20560; or Telephone: 202-287-2432** by no later than July 1, 1997. Salary will be commensurate with experience. *Equal Employment Opportunity/Affirmative Action.*

STAFF PET/SPECT CHEMIST

A **CHEMIST** with interest and experience in synthesizing PET/SPECT compounds for cancer research is urgently needed. A working skill in iodination and chelation is desirable. Excellent facilities and resources are available for productive and interdisciplinary research activities. Qualified applicants should contact: **Dr. Abass Alavi, Chief of the Division of Nuclear Medicine, Department of Radiology, Hospital of the University of Pennsylvania, Room 117-Donner Building, 3400 Spruce Street, Philadelphia, PA 19104.** *The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.*

ON THE
JOURNEY
OF

Discovery

Everyday, Glaxo Wellcome, the world's largest pharmaceutical company, touches the lives of millions of people around the world with innovative medicines and services. At the heart of our success is the \$1.5+ billion we annually invest in the discovery of new treatments. We know that to be first in quality, cost, speed and efficiency in the pharmaceutical industry requires outstanding Scientists who are committed to fighting disease and bringing innovative medicines to patients throughout the world.

If you would like to share our journey while testing the limits of your own potential, join our GENETICS team today in one of the following openings. These positions will be part of our Genetics Directorate which is responsible for providing input and implementing our genetics strategy for drug discovery and development. Openings are available at our U.S. Research & Development Center located on our Corporate Headquarters Campus in Research Triangle Park, N.C.

Glaxo Wellcome Has The Formula for the Ultimate Career in Genetics

ASSOCIATE SCIENTISTS/RESEARCH SCIENTISTS

Positions require a Bachelor's degree in Cellular or Molecular Biology, Genetics, or a related discipline, and at least 2 years professional experience. Familiarity with basic molecular biology techniques is essential, as are strong Macintosh and/or PC operating system, data storage and analysis skills and the ability to work well in a team environment.

The range of duties for each position may vary, but can include performing or designing molecular biological techniques to support experimentation in some or all of the following areas: genetics, polymorphism detection, differential gene expression, genomics, antisense oligonucleotides and histochemical analysis.

Position #s ASC3075-1 & ASC3076-4 - Will perform and develop molecular biological techniques in support of experiments in genetics, genomics, polymorphism detection and differential gene expression. Background in the use of microchip/slide DNA analysis technology or in the use of HPLC or PHAST systems is preferred. Individuals will be responsible for experimental techniques such as multiplex PCR; gel electrophoresis; radioactive and fluorescently labeled nucleic acid probes; nucleic acid hybridization; automated liquid handling operations using robotic workstations; DNA cloning and sequencing; and operation of computer-driven analytical instruments.

Position #ASC3087-1 - Will design and perform experiments to deliver antisense oligonucleotides to cells in tissue culture and in vivo. Will also perform molecular, biochemical, and histochemical analysis to monitor delivery and determine biological effects following antisense administration.

Position #ASC3088-1 - Will design and perform molecular and cellular biology experiments for gene expression analysis and quantitation. These experiments will support the validation of biological targets and will evaluate various methods for monitoring differential gene expression. (For Position #s ASC3087-1 & ASC3088-1 - experience/background in molecular and cellular biology techniques, including RNA isolation, Northern and Western analysis, tissue culture, RNase protection, PCR, and RT-PCR is highly desirable.)

ASSISTANT SCIENTISTS/SCIENTISTS

Positions #ASC3089-1 (Several Openings)

Positions require a Bachelor's degree in Cellular or Molecular Biology, Genetics, or a related discipline and at least one year of professional experience. Familiarity with basic molecular biology techniques is essential, as are strong Macintosh and/or PC operating system, data storage and analysis skills and the ability to work well in a team environment.

The range of duties for each position may vary, but can include performing molecular biological techniques to support experimentation in genetics and polymorphism detection. Responsibilities may involve genotyping DNA samples, archiving/tracking/distributing DNA samples, developing/implementing SOPs, apportioning DNA samples, managing DNA stocks, mutation detection, restriction endonuclease digestion of nucleic acids, and troubleshooting various processes.

Additional openings exist in our Genetics area for:

EPIDEMIOLOGIC SCIENTIST/PRINCIPAL EPIDEMIOLOGIST

Position #ASC3086-1 - Will plan and implement genetic/molecular epidemiologic research projects utilizing primary data collection and large population-based datasets in a broad range of therapeutic areas. Will also provide genetic epidemiologic expertise and support to research, clinical and commercial.

Requires an Epidemiologist (Ph.D. or Dr. PH or MPH) with training and experience in genetic/molecular epidemiology. Experience with primary data collection and analysis of large datasets is required, as is experience using SAS and/or other data analysis software. Candidate must have excellent written/oral communication skills and have the ability to manage a range of epidemiologic research activities.

RESEARCH INVESTIGATOR/SR. RESEARCH INVESTIGATOR

Position #ASC3179-1 - Will build and supervise laboratory group performing polymorphism detection/genotyping. Will develop and implement SOP methods using genetic techniques to identify DNA polymorphisms in samples obtained from clinical trials in a GLP environment. Will provide input and implementation of Genetics Directorate strategy for drug discovery and development.

Requires a BS/BA in a scientific discipline with 6 years relevant experience, or a Master's degree with 4 years experience; or a Ph.D. with 1 year experience. Familiarity with a broad range of molecular biology techniques and operation of computer driven instrumentation is required, as are excellent leadership and communication skills. Familiarity with Macintosh and/or Windows operating systems and the use of computers in data storage/analysis is required.

In exchange for your considerable skills, we offer excellent salaries and benefits package, opportunity for career growth, and the energy and excitement of working in Research Triangle Park, the world's largest planned research center. For confidential consideration, send your resume, which must include position title/corresponding job number and salary history, to: Human Resources, Glaxo Wellcome, P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

GlaxoWellcome

You'll Learn, You'll Create, You'll Discover

Genentech, Inc.

incredible people
extraordinary science

What does your work mean to you? At Genentech, our work represents a commitment to progress, a quest for discovery. What matters to us? Something incredibly simple - bettering human health. Whether experimenting with a next-generation medicine, or producing it in manufacturing, you'll play a critical part to make our vision a reality. Each day, we make it more real. If you share that passion for life, imagine what we could do with your help. It's incredible, and extraordinary.

Scientist/Senior Scientist *Molecular Biology/Protein Expression*

You will participate as an integral member of a group that is identifying novel therapeutic proteins by a variety of techniques. Your emphasis will be to lead a group involved in protein production in cell culture. You will also develop novel methods for expression and analysis of proteins in transgenic animals. You should possess a Ph.D. in Molecular Biology along with a minimum of 5 years' postdoctoral experience. Proven expertise in high-throughput or automated production of proteins for research purposes in mammalian cells and/or expression cloning is highly desirable. We are seeking a team player with prior supervisory experience and excellent communication skills. Job Code MCTG

Research Assistant *Toxicology*

You will perform preclinical safety studies for our Toxicology department. The focus of your research will be animal model development and preliminary safety assessment of late research and development projects. Familiarity with most aspects of experimental protocols, animal testing, data analysis and reporting and presenting results is imperative. Requires a BS, relevant lab experience, and the ability to multitask. Experience working with animal models is essential. Job Code MCGS

Join us and enjoy our exciting success and progressive benefit package that includes fully paid medical/dental/vision coverage, 3 weeks paid vacation, a sabbatical program, stock purchase opportunities for full time employees, and free health club membership. For consideration, send your resume, indicating Job Code, to Genentech, Inc., Human Resources, 460 Pt. San Bruno Blvd., South San Francisco, CA 94080. Please avoid bold, underline or italic type faces. You may also e-mail your resume indicating Job Code to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

www.gene.com



Chief, Neurogenetics Branch

National Institutes of Health

National Institute of Neurological Disorders and Stroke

The Division of Intramural Research of the National Institute of Neurological Disorders and Stroke (NINDS) invites nominations and applications for the position of Chief of a newly created Neurogenetics Branch. We are seeking exceptional, established candidates to direct a research program in the genetic basis of neurological disorders, including but not restricted to, the identification of genes responsible for neurological diseases and the elucidation of their actions. In addition to the Chief's program, space and resources exist in the Branch for the recruitment of two tenure-track individuals who would establish independent but complementary research programs. The Chief would have the opportunity to hold a joint appointment in the National Human Genome Research Institute. Salary will be commensurate with the qualifications and experience of the candidate.

Applicants should send curriculum vitae, bibliography, statement of research interests, and the names of three references to: **Dr. Story Landis, c/o Chris Steyer, Building 31, Room 8A23, NINDS, NIH, 31 Center Drive, MSC 2540, Bethesda, MD 20892-2540.**

Applications should be postmarked by May 15, 1997.

*NIH is an Equal Opportunity
Employer.*

NIH Has A New Address.

The National Institutes of Health has introduced a new web site. Now, the latest news about clinical and research training opportunities at NIH can be accessed by visiting us at <http://helix.nih.gov:8001/oe/>

At the site, you can quickly obtain information regarding clinical and postdoctoral training. Review the NIH tenure-track openings. Take a look at the NIH Postdoctoral Research Fellowship Opportunities Catalog which chronicles research being conducted in all NIH laboratories. You can even apply electronically for positions.

All from the convenience of your keyboard.

Plus, the web site links to all NIH institute and laboratory home pages, provides a calendar of events, and offers links to many other areas.

We used to ask you to call us or send your *curriculum vitae*. Now, the best way to find out about world class opportunities at NIH is through the world wide web.



National Institutes Of Health

Office Of Education

<http://helix.nih.gov:8001/oe/>

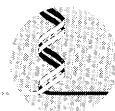
The NIH is an Equal Opportunity Employer

Postdoctoral Position

To investigate the mechanism and consequences of Ty element retrotransposition in *S. cerevisiae*. These transposable elements are structurally and functionally similar to retroviruses and are widely dispersed in nature.

We seek an individual with experience in genetics, microbiology, molecular biology or biochemistry. Previous experience in yeast genetics is not required. Excellent benefits and work environment; competitive salary. Please send C.V., a brief description of research experience and contact information for three references to:

Dr. David Garfinkel
c/o Human Resources Dept.
ABL-Basic Research Program
NCI-FCRDC
P.O. Box B, Building 428
Frederick, MD 21702-1201



*An Equal Opportunity/
Affirmative Action Employer*

Associate/Staff Scientist CNS Research

Be at the forefront of drug discovery research with The DuPont Merck Pharmaceutical Company. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals.

We have an opening at our Wilmington, DE facility for a Molecular Biologist/Neurobiologist to study the mechanisms underlying CNS diseases for the identification and validation of novel therapeutic targets.

The position requires an individual with a BS or MS degree and at least 1-2 years of prior experience in an academic or industrial lab.

The candidate should possess well developed lab skills in molecular biology, (e.g. handling DNA/RNA, cloning, hybridization, transformations, transfections, and use of radioisotopes) along with a willingness to learn and apply new techniques.

Neurobiology experience (e.g. neuroanatomy, neuronal cell culture, neuropharmacology) along with experience in tissue culture, immunocytochemistry, protein biochemistry, or transgenic mice is desirable.

DuPont Merck offers a competitive salary and a generous benefits package including 401K plan as well as excellent working conditions and challenging assignments.

Please send a letter of introduction and resume to: Human Resources CNS-BL-SC, The DuPont Merck Pharmaceutical Company, E400/5243, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer M/F/D/V.



The DuPont Merck Pharmaceutical Company
Merging Strengths...Emerging Opportunities

R&D POSITIONS AVAILABLE

DowElanco R&D has (3) immediate openings in the areas of Natural Products and Fermentation Science. Successful candidates will participate in research efforts to discover and develop natural products with utility for Agricultural & Urban pest control. Two of the positions are located in Indianapolis, IN, the third at Harbor Beach, MI.

1. Ph.D. Microbiologist / Mycologist with Lab-Scale Fermentation Experience

The Natural Products Discovery Group at DowElanco is seeking a Ph.D. - level microbiologist/ mycologist to develop and lead a laboratory-scale fermentation program. Principal responsibilities include fermentation, scale-up, strain preservation, and optimization of secondary metabolite production from both bacterial and fungal strains. Additionally, the candidate will support biological screening efforts by providing microbial broth samples, and will participate in efforts to source novel microorganisms. Required technical skills include the operation of a lab-scale fermentor, experience with classical strain selection techniques and optimization of fermentation parameters, and some knowledge of microbial taxonomy and screening techniques. A strong background in microbial biology and physiology is desired, along with 1-5 years practical experience in industrial microbiology.

2. Ph.D. Fermentation and Strain Development Technical Manager

DowElanco R&D is seeking a seasoned technical Manager to oversee all aspects of fermentation scale-up, optimization, and strain development activities for a series of natural products ranging from early-stage Discovery activities to products in the Development pipeline. The successful candidate will coordinate fermentation and strain development activities across multiple projects and locations, serve as a liaison between lab-scale and pilot-plant fermentation groups within DowElanco, and manage interactions with various third-party suppliers of services. The candidate will also serve as a corporate consultant for natural product sourcing, screening, and selection strategies and technologies. Additionally, he or she will be expected to conduct independent research on novel approaches to strain development. The candidate should be a recognized expert in the application of natural product selection, screening, and strain development technologies, with demonstrated technical leadership and managerial skills. A Ph.D. in Biology or a related field, coupled with at least 10 years relevant experience is required.

3. Pilot-Plant Fermentation Development Leader

The Technical Service Team of DowElanco at Harbor Beach, Michigan has an immediate opening for an experienced, highly motivated fermentation development leader. The successful candidate will lead an interdisciplinary team in the development and optimization of commercial fermentation processes. Required skills include experience in the operation of pilot-plant fermentation facilities, optimization of fermentation conditions and processes, quality control principles, and the ability to apply a knowledge of chemistry, microbial physiology and chemical engineering to address complex manufacturing issues. A strong background in microbial biology, physiology, and chemistry is desired, along with 1-5 years practical experience in the operation of commercial-scale fermentation facilities, and supervisory skills.

In addition to a competitive compensation and benefits package, DowElanco offers challenging opportunities within a creative, stimulating, and diverse work environment. DowElanco is an affirmative action, equal employment opportunity employer.

Interested candidates should send a letter of interest, resume, transcripts, and the names, addresses and phone numbers of three references to:

Kathy McIntyre / Microbiol 10
R & D Recruiting
DowElanco
9330 Zionsville Rd.
Indianapolis, IN 46268-1054
Phone: (317)-337-4956 FAX: (317)-337-4970



DowElanco

*Application deadline for all positions is June 15, 1997.

gene/Networks, a genomics company located in the San Francisco Bay Area, is focused on the discovery and assembly of the gene networks underlying risk for complex human disorders. We currently have openings for the following positions:

Director of Molecular Sciences

The successful candidate will direct a comprehensive molecular biology program; lead a group of scientists involved in positional candidate and positional cloning strategies; help coordinate large scale expression analysis and large scale genotyping and sequencing projects; and work with the informatics group as well as our human and mouse genetics group to achieve program goals.

The qualified candidate will have a Ph.D. in Molecular Biology or related area and at least 8 years of experience in genomics research and molecular biology. Good publication record and proven management skills are also required. Experience in positional cloning is desirable. Reference Job #97-103.

Bioinformatics, Research Scientists

A number of positions are available in our Bioinformatics Department. Individuals with experience in areas of scientific programming, database design and data mining and analysis are encouraged to apply. Reference Job #97-102.

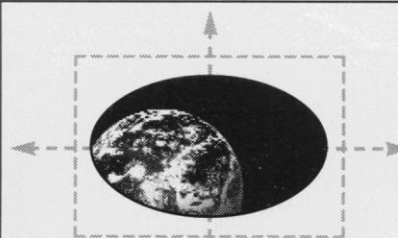
Mouse Genetics, Research Scientists

Positions will be available in the near future in our Mouse Genetics Department. Individuals with experience in functional genomics and mouse genetic models are encouraged to apply. Reference Job #97-104.

gene/Networks offers competitive compensation and excellent benefits. For consideration, please send your CV/resume to: gene/Networks, HR Department, Attn: Sally A. Smith, 1501 Harbor Bay Parkway, Alameda, CA 94502. FAX: (510) 523-4476.

gene/Networks is an Equal Opportunity Employer

gene/Networks



**We're redefining the way
the world looks at
life sciences.**

**We're the new life
sciences company at
Monsanto.**

We're even more focused on the future. That's why our entire organization, from agricultural biotechnology to pharmaceuticals to food ingredients, is dedicated to life sciences. These are areas that can directly impact our future. Now, we can continuously answer the questions, needs and demands of our ever-changing planet. After all, the world's resources are finite, but our vision for its future is not.

HAPLOID CEREAL

We're seeking a highly motivated scientist with a MS or PhD and relevant experience in haploid production, plant tissue culture, developmental biology and cytogenetics to help develop technology for the production of haploid wheat plants and improved transformation technology. A solid background in genetics and breeding is a plus. **Job Code: HC**

PLANT MOLECULAR BIOLOGIST

The qualified candidate for this position will possess a BS or MS in a relevant field and 2+ years of experience utilizing recombinant DNA technology. Excellent communication skills are essential. A solid background in plant molecular and developmental biology is preferred.

Job Code: PMB

We offer a competitive salary and benefits package. For consideration, please forward your resume including contact information for at least three references to: **The Monsanto Company, Attn: Barbara Rhodes, Job Code: (please select), 700 Chesterfield Parkway North, Mail Zone: GG4J, St. Louis, MO 63198. Fax: 314/537-6567. EEO/AA Employer M/F/D/V.**

Monsanto

Principal Research Scientists, Senior Research Scientists, Staff Scientists & Associate Scientists

Infectious Diseases Group

Be at the forefront of drug discovery and development with the The DuPont Merck Pharmaceutical Company. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals. We currently have openings at our facilities in Wilmington, DE.

The ideal candidates will have approximately 3-5+ years of experience in drug discovery research including the identification of novel drug targets and the development of assays. Experience in microbiological/infectious diseases techniques is preferred. A graduate degree, or equivalent, is required; Ph.D., M.D./Ph.D. with expertise in microbiology.

The candidates must have a track record of innovation and in bringing novel biological techniques into successful drug programs. Candidates must have a working knowledge of microbial physiology, biochemistry, genetics, cloning strategies, use of genomics, assay method development, high throughput screening techniques and criteria for selection of drug discovery candidates.

Associate Scientists and Staff Scientists candidates must have a B.S./M.S. degree, or equivalent, and a strong knowledge of microbial physiology and biochemistry.

Candidates will be bright, enthusiastic professionals who possess the drive and intensity to interact effectively with the scientific community and our team environment here at DuPont Merck.

Candidates are expected to become leaders in a highly visible discovery program for the identification of small molecules to inhibit resistant pathogens. Candidates will have significant responsibility for the establishment of a new and exciting antimicrobial research program at The DuPont Merck Pharmaceutical Company.

DuPont Merck offers a competitive salary and a generous benefits package including 401K plan as well as excellent working conditions and challenging assignments. Please send a letter of introduction, resume and one-page research summary to: The DuPont Merck Pharmaceutical Company, E400/2413-EG, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer M/F/D/V.

**DU PONT
MERCK**

The DuPont Merck Pharmaceutical Company
Merging Strengths...Emerging Opportunities.

BS/MS Scientist Analytical Toxicology/ Toxicokinetics

In this position, you will operate a triple-stage quadrupole mass spectrometer for quantitative drug and metabolite analysis in support of investigative (mechanistic) toxicology studies. Functions will include studying the ADME of new drugs/biologics, compounds of biological interest and their metabolites.

You will also interpret and report mass spectral data and develop and perform the trace analysis of metabolites from biological fluids. Qualified candidates will have a BS/MS degree or equivalent plus a minimum of 3 years' relevant experience in analytical chemistry, organic/medicinal chemistry, biochemistry or related science along with a background in mass spectrometry, LC/MS/MS, GC/MS, CZE/MS and in-vivo preclinical studies. GLP experience and excellent oral and written communication skills are essential. Record of peer-reviewed scientific publications is highly desirable.

Job Code: 2123

You've
Heard
of Us.
Now
Get to
Know Us.

Ph.D. Research Scientist

Developmental/ Reproductive Toxicology

Pfizer scientists are involved in some of the most critical research in the world today. As a Fortune 100 company, we have established a product pipeline that is unparalleled, and an intellectual, collaborative environment that inspires scientific achievement. Join us, and participate in creating innovative solutions to disease and illness.

In addition to a fast-paced, yet collegial environment, we offer very competitive salaries and excellent benefits including relocation assistance. Please forward resume to: **Employee Resources, Pfizer Inc., Job Code #** _____, **Central Research Division, Eastern Point Road, Groton, CT 06340.** For more information about Pfizer, see us on the Internet at: <http://www.pfizer.com>. We are an equal opportunity employer M/F/D/V.

The Drug Safety Evaluation Department is seeking a Ph.D. scientist to conduct GLP Developmental and Reproductive Toxicology studies for submission to regulatory authorities. In addition to conducting studies, you should be familiar with current in-vitro and molecular biology techniques as related to developmental toxicology. Responsibilities include study design, supervision of technical staff, data analysis and interpretation and report preparation. This position requires a Ph.D. or equivalent in toxicology or related field and a minimum of 1 year relevant post-doctoral or industrial experience. The successful candidate will have a background in either in-vitro methodologies for evaluation or developmental and reproductive toxicants, molecular biology, chemistry/biochemistry or pharmacology. Familiarity with skeletal and visceral tissue analysis is helpful. Excellent written and oral communication skills and the desire to participate in a team approach to accomplishing scientific goals are essential. **Job Code: 2124**

Research Scientist Molecular & Cellular Virology

In this leadership position, you will carry-out research to understand the function of viral genes and viral gene products important to the project within the areas of molecular and general virology. You will also be responsible for independently performing and directing research aimed at the development of advanced technology vaccines, identifying project-relevant areas for scientific inquiry and developing assays to assess the potency, safety and efficacy of animal vaccine candidates, including animal disease model development. You must have experience with the molecular functions of RNA viruses. **Job Code: 2125**



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Stratagene.

Growth Opportunities, Corporate Stability, and a Great Location

NUCLEIC ACID ANALYSIS & ENZYMES

Stratagene, a leader in the development and manufacture of molecular biology research products, is one of San Diego's largest and most stable life science research companies. Its long track record of profitability has also created a financially independent and secure organization, with significant advancement opportunities.

PRODUCT MANAGER

BS/BA degree in Molecular Biology or related field or equivalent and a minimum of 3-5 years' experience marketing molecular biology products are required, along with a strong understanding of the molecular biology market. The selected candidate will be responsible for generating, implementing, tracking and reporting tactical sales and marketing programs worldwide for Nucleic Acid Analysis & Enzymes products. Specific knowledge of and experience with the following product groups are desirable: PCR enzymes and applications, nucleic acids purification, DNA analysis (DNA sequencing, mapping, genotyping), mutagenesis, gene expression/RNA analysis. Laboratory experience is preferred. Req. 22037-97A

STAFF SCIENTISTS

Three positions are available for individuals with a Ph.D. in Biology, Biochemistry, Molecular Biology, and at least 1 year of postdoctoral experience. Alternatively, a BS/MS with 8+ years of relevant laboratory experience will be considered. Candidates must have excellent oral and written communication skills and demonstrated ability to operate in a team environment. Product development experience is advantageous for all positions.

In addition to the qualifications above, one position requires extensive experience in DNA biochemistry, nucleic acid purification, sequencing, Southern and northern hybridization, PCR, cloning, radioactive and non-radioactive labeling of nucleic acids, and mutagenesis. Req. 21034-97A

A second position also requires extensive experience in DNA sequencing (manual and automated), genotyping, mapping and genomics applications. Expertise with robotic automation systems and sequence data analysis programs preferred. Req. 21036-97A

The third position requires expertise in RNA purification, transcription assays, RNase protection, S-1 nuclease mapping, Southern and northern hybridization, PCR, RT-PCR, nucleic acid sequencing, and radioactive and non-radioactive labeling of nucleic acids. Req. 21035-97A

SENIOR RESEARCH ASSOCIATE

This position requires a BS or MS in Biochemistry or Molecular Biology with 5-6 years of relevant lab experience, Southern and northern hybridization, radioactive and non-radioactive labeling of nucleic acids, DNA sequencing, PCR, and cloning expertise. Product development experience preferred. Candidates must have excellent oral and written communication skills and demonstrated ability to operate in a team environment. Req. 21038-97A

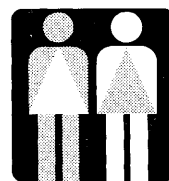
RESEARCH SCIENTIST

BS or MS in Molecular Biology, Biochemistry, or equivalent, plus 5-10 years of laboratory experience in PCR assay/product development. Candidate should possess additional experience in molecular biology and protein chemistry techniques (electrophoresis, cloning, sequencing, enzyme assays). Product development experience preferred. Candidates must have excellent oral and written communication skills and demonstrated ability to operate in a team environment. Req. 21039-97R

Stratagene offers a competitive salary commensurate with experience and qualifications. If you are interested and qualified, please send your resume to: Stratagene, 11011 N. Torrey Pines Rd., La Jolla, CA 92037, Attn: Professional Staffing/Req. ____ AA/EOE.



STRATAGENE®



**British
Columbia
Transplant
Society**

www.transplant.bc.ca

Molecular Cellular Transplant Immunology

Jack Bell Research Centre

**The British Columbia
Transplant Society**

**Vancouver Hospital & Health
Science Centre**

The British Columbia Transplant Society (BCTS) leads and coordinates all solid organ transplant services in B.C. As the only comprehensive health organization for transplant services in North America, the BCTS also conducts research in the field of transplantation and coordinates professional and public education relating to organ donation.

The British Columbia Transplant Society in conjunction with the Vancouver Hospital and Health Sciences Centre invites applications for an academic research position in molecular and cellular immunology relating to basic mechanisms in transplant immunology. Qualifications include Ph.D., M.D., or equivalent with 2-3 years post doctoral experience. Appointment at an appropriate rank (grant-tenure track) will be available in a Department of the University of British Columbia based on the qualifications and experience of the individual. Starting date will be January 1 or later, 1998.

The appointee will be expected to develop an independent research program relating to transplant immunology such as lymphocyte gene regulation, molecular mechanisms in antigen presentation, lymphocyte activation and nonresponsiveness and to interact with faculty with similar research interests. Participation in the teaching programs of the University of British Columbia will be expected following a full-time faculty appointment. Salary will be commensurate with qualifications and experience. After appointment, the successful appointee will be expected to apply for independent salary support from appropriate granting agencies.

Please submit a letter of application, curriculum vitae, the names and addresses of three referees and a statement of research experience and future research interests by September 1, 1997 to: **Dr. W. Robert McMaster, Director, Transplant Immunology Research, Jack Bell Research Centre, University of British Columbia, Vancouver Hospital & Health Science Centre, 2660 Oak Street, Vancouver, B.C., Canada V6H 3Z6, Telephone (604)875-4134, Fax (604)875-4497, E-mail robm@unixg.ubc.ca.**

In accordance with Canadian immigration policies, this advertisement is directed first to Canadian citizens and permanent residents. The BCTS is committed to employment equity and encourages applications from all qualified candidates.

THE WORLD DEPENDS ON THE

Commitment

Of Our Scientists.

It takes world-class employees to make a world-class company.

At Abbott Laboratories, our professionals are researching, developing and marketing the health care products that will make a significant impact on generations to come. We are currently seeking the following pharmacologists to join our team.

ASSOCIATE BEHAVIORAL PHARMACOLOGIST

We are seeking a pharmacologist to conduct experiments in behavioral pharmacology in rodents. This includes performing surgical manipulations, analyzing data and maintaining records.

We require a B.S./M.S. in Neuroscience, Psychology or related field and previous experience in behavioral testing of rodents and small animal stereotaxic surgery. A solid background in pharmacology and neuroscience is essential, as is a knowledge of neurochemical and neuroanatomical techniques. Strong communication skills and basic computer and statistical skills are essential. (Job #97-LAM-1148)

ASSOCIATE TUMOR PHARMACOLOGIST

We are seeking a pharmacologist to plan and execute animal models of cancer diseases. Specific duties include inoculation, medication, surgery and necropsy of lab animals. The ability to work in a team environment is essential.

We require a B.S./M.S. in a Biological Science and experience with common lab rodents. Familiarity with cancer, infectious diseases, drug efficacy trials and drug development is necessary. Surgical experience is a plus. Some weekend and evening work will be required. (Job #97-LAM-0751)

With 52,000 employees worldwide and more than \$11 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please send your resume with salary history to: **Abbott Laboratories, Job #(please select), D583, AP9A(LL), 100 Abbott Park Rd., Abbott Park, IL 60064.** Abbott is an Affirmative Action Employer/ Smoke-Free Environment.

**ABBOTT
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Quality Health Care Worldwide

DELIVERING ON THE PROMISE TO ENHANCE PEOPLE'S LIVES

Microbiology Research

At SmithKline Beecham Pharmaceuticals, our Microbiology Research Department is focused on the discovery of novel anti-microbial agents. Research areas include microbial pathogenesis, drug resistance and new molecular mechanisms essential for bacterial infection, growth and progression of disease. In order to continue the process of strengthening our total commitment to infectious disease research, we are seeking scientists eager to join a technologically advanced team and facility to help enhance our research in microbial disease.

Opportunities exist at all levels of expertise including PhD, postdoctoral fellow, MS and BS. We are seeking candidates with expertise in microbial genetics, molecular biology, biochemistry, animal disease models, bacterial membranes, bacterial cell wall biosynthesis/division, and protein/protein interaction. Areas of research interest include microbial DNA replication, cell wall and membrane biosynthesis, amino acid biosynthesis, transcription, translation, signal transduction, and the analysis of protein/protein interaction. This highly stimulating, challenging environment provides scientists with numerous opportunities to collaborate with leading academic departments and world-renowned experts in their respective disciplines.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers an excellent compensation/benefits/relocation package and a stimulating work environment in which to grow and excel. For confidential consideration, please forward your resume to: SmithKline Beecham Pharmaceuticals, Job Code DB-MICRO, P.O. Box 2645, Bala Cynwyd, PA 19004. For more information on SmithKline Beecham, visit our Web site at <http://www.sb.com>. We are an Equal Opportunity Employer, M/F/D/V.



SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.

THE BAYER FACTS:



Bayer:

A premier healthcare company for the 21st century.

Our business is
to significantly
improve health
worldwide.

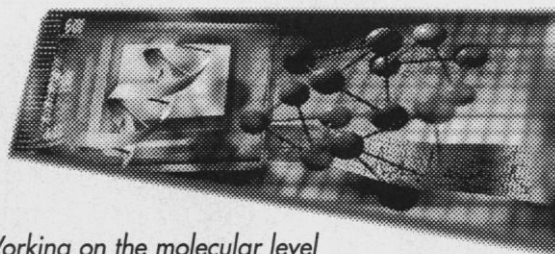
People are the
heart of
our company.

Our corporate
culture inspires
and commits all
to do their best.



STAFF SCIENTIST

- In the highly competitive global pharmaceutical marketplace, there are many "Bayer Facts" which distinguish us as a leader. To name a few, we are part of Bayer Corporation, a \$26.8 billion international diversified organization and one of the most broadly-based healthcare companies in the U.S. Our Pharmaceutical Division has worldwide responsibility for the research and development of treatments for dementia; cancer; diabetes and other metabolic disorders; and rheumatic diseases.
- Supervising the development of high throughput screening assays in our Lead Discovery Research Unit, your responsibilities will include interacting with project teams to discuss target selection, assay design and reagent generation; analyzing data and reporting results; and coordinating the production of reagents.
- To qualify, you must have a PhD (or equivalent) and 6+ years of related experience, preferably in the pharmaceutical industry. Enzymology experience and a background designing and troubleshooting bioassays are essential. You must also have strong computer, interpersonal, supervisory and presentation skills. Knowledge of chemistry and experience in various disease areas are definite assets.
- ...and there's one more fact. If you're ready to join us, there's no better time than now. For immediate consideration, please forward your resume (indicating dept code), including salary history to: AA/Human Resources, Bayer Corporation, Pharmaceutical Division, 400 Morgan Lane, West Haven, CT 06516. No agencies or phone calls please. For more information on Bayer, search: <http://www.careermosaic.com/cml/bayer/>
- An Equal Opportunity Employer M/F/D/V. Bayer Corp. is committed to establishing and maintaining cultural diversity within our work environment.



*Working on the molecular level
to conquer, treat, or prevent
debilitating diseases.*

INFECTIOUS DISEASES DISCOVERY RESEARCH AT SCHERING-PLOUGH

At the Schering-Plough Research Institute, scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. If you are seeking an opportunity to be on the cutting edge of exploratory pharmaceutical discovery, become part of an advanced multidisciplinary research group focused on the study of microbial genetics.

ASSOCIATE SCIENTIST Microbial Genetics

An excellent opportunity is available for a versatile, organized and highly motivated scientist to join an interdisciplinary team involved in Actinomycete molecular biology and the production of secondary metabolites. To qualify, you will need a BS degree in Molecular Biology or related discipline and 2-7 years of experience or an MS degree and 0-4 years of experience. Background must include expertise in microbial genetics as well as a solid knowledge of molecular biology and biochemical techniques. Familiarity with secondary metabolite production and actinomycete biology is helpful. Demonstrated ability to work both independently and as an effective team member is critical.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume with salary requirements to: Human Resources-DMS, Dept. DD9715/TH-DS, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539. You may also respond via e-mail to: spri@spcorp.com. Please include the Department Code for your position of interest in the Subject Line. 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.



**Schering-Plough
Research Institute**

Using Science for Human Advantage



University of New Mexico School of Medicine

Six Tenure-Track Assistant Professor Positions in Biomedical Research

With support from the **Howard Hughes Medical Institute Research Resources Program**, the University of New Mexico School of Medicine seeks outstanding applicants to fill six new tenure-track positions at the rank of **Assistant Professor** in the following areas:

Molecular Epidemiology :

Molecular Genetics and Oncology:

Cell Adhesion / Signal Transduction:

Metastasis / Motility / Extracellular Matrix:

Viral Immunology/Molecular Virology:

Neurosciences:

Molecular Epidemiology of Cancer

Fundamental Mechanisms of Tumorigenesis, Cell Cycle Regulation, DNA Repair, Human Cancer Genetics

Receptor-Mediated Adhesion and Signal Transduction in Leukocyte-Endothelial Interactions in Models of Inflammation, Angiogenesis, or Asthma

Molecular and Cell Biology of Metastasis, Matrix, and Cell Motility in Models of Cancer and Development

Immune Responses to Viral Infection, Viral Pathogenesis

Molecular Mechanisms of Neural Plasticity

Applicants must have an advanced degree (Ph.D., M.D., or equivalent) and have completed post-doctoral or fellowship training; demonstrated productivity measured in publications and attempts to obtain/maintain extramural funding are highly desired. Successful candidates will be expected to develop a highly vigorous, competitive, and interactive research program and will participate in teaching medical and graduate students and post-doctoral fellows. Attractive start-up packages are available. Successful candidates will be appointed to an appropriate School of Medicine Department. Up to four applicants will be hired in 1997 and two in 1998. Details regarding each of these positions may be found at: <http://somasf.unm.edu/hughes>. Positions will remain open until successful candidates are identified. For best consideration in 1997, applicants should submit the following before June 9, 1997: a curriculum vitae, the names of three references, a concise description of their research program or plan, the position for which they wish to be considered, and their date of availability to: **Dr. Cheryl Willman, PI, HHMI Program, UNM SOM Research Office, BMSB, Box 520, Albuquerque, New Mexico, 87131-5196.**

Applicants must be eligible to work in the United States.

UNM School of Medicine is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR OF RESEARCH

♦♦♦♦ **Sacramento, California** ♦♦♦♦

Shriners Hospitals for Children (SHC) is seeking a Director of Research for its newly opened Northern California Hospital in Sacramento. The individual must hold a Ph.D. or M.D. and be qualified for the rank of associate or full professor in an appropriate academic department at the University of California, Davis, with which SHC is affiliated. Institutional interests of SHC in basic research include wound healing and repair of skin, skeletal and neural tissue, regeneration or bypass of spinal cord lesions, sensory feedback, and control of spasticity. Institutional interests of SHC in clinical research include biomechanical and rehabilitation engineering with development of devices enhancing mobility, seating, electronic communication and robotic assistance to activities of daily living. The candidate should have demonstrated leadership qualities as an administrator as well as a distinguished record of contributions in the field of either cell and developmental biology, physiology, molecular biology or bioengineering. Preference will be given to individuals who have a history of sustained extramural funding and who are interested in both basic and clinically useful research.

Approximately 40,000 square feet of laboratory space and recruitment of the appropriate research team await development in the Shriners Hospital located next to the U.C. Davis Medical Center in Sacramento. The annual research budget for the 22-hospital SHC system is presently in excess of \$20 million. This particular hospital is an 80-bed facility serving children with orthopaedic problems, burns, and spinal cord injuries.

Interested applicants should forward a current Curriculum Vitae to: **William W. Monaf, M.D., Chairman, Search Committee for Research Director, Northern California Hospital of SHC, c/o Elwood W. Speckmann, Ph.D., Director of Research Programs, International Shrine Headquarters, 2900 Rocky Point Drive, Tampa, FL 33607-1460.**



Applications and nominations will be accepted until August 1, 1997, or until an acceptable candidate is found.

EOE - M/F/D/V - Drug Free Workplace

Helios Pharmaceuticals

Helios Pharmaceuticals is a new and rapidly growing company with proprietary combinatorial chemistry and high throughput screening technologies for drug discovery. Helios has multiple positions for immediate hire. The company has uniquely stable funding, advanced robotic technologies, and an aggressive development plan. Helios Pharmaceuticals is located in the cosmopolitan city of Louisville, Kentucky, near excellent schools and affordable housing.

Screening Pharmacology - A Ph.D. in pharmacology or related area and 2-5 years experience in drug screening using laboratory automation. Position requires bioassay/protocol implementation of cell-based and non-cell-based systems, and data analysis using modern software.

Molecular and Cell Biologists - A Ph.D. and 2-5 years experience in molecular/cell biology with strong skills in cloning/gene engineering, protein and/or gene expression. Prefer experience in bioassay development in one or more of the following: cell-based reporter-genes; recombinant protein-based interaction assays; solution- and solid-phase capture-hybridization of transcripts for drug screening; signal-transduction and receptor-driven readouts for drug discovery.

Protein and Nucleic Acid Interactions - biophysical approaches - A Ph.D. with 2 years experience to explore protein-protein, protein-nucleic acid, and nucleic acid hybridization interactions by physical methods, i.e. time-resolved fluorescence, fluorescence polarization and biosensor applications. Protein and nucleic acid chemistry skills needed.

Biologists: Molecular/Cellular Biology/Protein Chemistry/Screening Pharmacology - BS/MS and 2-4 years of general experience in cell culture/molecular biology techniques. Specific areas of excellence we desire include (I) expression, purification and characterization of recombinant proteins; (II) lab automation & robotics; (III) biophysical methods; (IV) cloning and nucleic acid synthesis.

We offer competitive salaries and benefits packages as well as outstanding opportunities for career growth. Please send a detailed resume and three references in confidence to: Human Resources, Helios Pharmaceuticals, 9800 Bluegrass Parkway, Louisville, KY 40299 **E.O.E.**

POSITIONS OPEN



RESEARCH FACULTY POSITION IN THE BIOLOGY OR MOLECULAR GENETICS OF HEMATOPOIETIC STEM CELLS

The Coriell Institute for Medical Research (CIMR) invites applications for appointment as a member of its **RESEARCH FACULTY** at either the junior or senior level. Candidates must have training and experience of the highest quality and an exciting research program addressing fundamental questions in the area of the biology of hematopoietic stem cells. Desirable programs might include those in the regulation of differentiation, the role of growth factors in stem cell replication, the biology of growth factor receptors, or the molecular genetics of hematopoiesis. The research program must be funded, or in the case of a junior applicant, eminently fundable.

The CIMR is an independent, not-for-profit research organization founded in 1953. Its current programs center on the immunogenetics of diabetes, genes of the immune system, cancer therapeutics, and cell culture and banking. The CIMR offers an excellent research environment and laboratory facilities, start-up funds, and a generous benefits package. Salary is negotiable.

Candidates should submit a curriculum vitae, a statement of research interests and accomplishments, and a list of at least three references. Review of applications will begin on June 1, 1997, but applications will be accepted until the position is filled. Applications should be sent to: **Director of HR, Coriell Institute for Medical Research, 401 Haddon Avenue, Camden, NJ 08103. Email: tulerci@umdj.edu. Equal Opportunity Employer/Affirmative Action.**

The University of Puerto Rico-Cayey Campus is recruiting for full-time non-tenure-track positions for Academic Year 1997-1998, with a possibility of a tenure track for 1998-1999 academic year upon obtaining satisfactory evaluations. An Evolutionary-Vertebrate Zoologist; an Inorganic Chemist and a Biochemist, **ASSISTANT PROFESSOR LEVEL**, beginning August 1997, to teach undergraduate introductory biology or chemistry courses and their respective specialties. Doctorate degree and a strong commitment to teaching excellence and involvement of students in research is required. Bilingual, fluent in Spanish and English. Submit curriculum vitae, statement of teaching interests, and three letters of recommendation by April 30, 1997 to: **Chairperson, Biology/Chemistry Department, Cayey University College, Cayey, PR 00736. Telephone: 787-738-2161 Ext. 2036; FAX: 787-263-6426.**

DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY

The Department is seeking appropriately qualified applicants for a limited-term position at the **ASSISTANT PROFESSOR** level. Applicants must possess a Ph.D. or M.D. in pharmacology, toxicology, genetics, or a related discipline and preferably will have completed at least one year of postdoctoral training. Although all outstanding candidates will be considered, preference will be given to those who have experience in molecular toxicology, molecular genetics, or a closely related discipline. The successful candidate is expected to develop an active, externally funded research program and to participate in some undergraduate and graduate teaching. Salary will be commensurate with qualifications and experience. The Department will sponsor the successful applicant in seeking external salary support from appropriate sources. The successful candidate will be appointed initially for a five-year term. The deadline for these applications is June 30, 1997 and applicants should forward a curriculum vitae, three letters of reference and a description of proposed research to: **Dr. J.R. Bend, Chair, Department of Pharmacology and Toxicology, University of Western Ontario, London, Ontario, N6A 5C1, Canada. In accordance with the requirements of Immigration Canada, this advertisement is directed to Canadian citizens and permanent residents of Canada. The University of Western Ontario is an Equal Opportunity Employer.**

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF PLANT SCIENCE UNIVERSITY OF CONNECTICUT

The Department of Plant Science invites applications for a nine-month, **TENURE-TRACK, RESEARCH and TEACHING** position (60% research: 40% teaching) in plant molecular genetics and plant improvement. The successful candidate will demonstrate the capability to develop a strong, externally-funded research program and an expertise which will support departmental efforts to utilize plant molecular genetics to improve nursery, floriculture or turf crops of importance to the State's agriculture industry. The incumbent is expected to collaborate with departmental and Biotechnology Center faculty in a team environment. Experience with ornamental plants, or a willingness to collaborate with others in the development of a research program with these plants, is necessary to complement departmental strengths. Applicants will be expected to develop and teach undergraduate and graduate courses in plant molecular genetics and plant improvement. A Ph.D. degree in plant molecular genetics/biology, horticulture, or closely related field with experience and emphasis on the application of molecular techniques for crop improvement is required. To apply, send a letter of application highlighting research and teaching goals, curriculum vitae, representative publications, and names and addresses of three references to: **Dr. Mark Bridgen, Chair of Search Committee, Department of Plant Science, U-67, 1376 Storrs Road, University of Connecticut, Storrs, CT 06269.** Applications will be accepted until May 15, 1997, or until the position is filled. Starting date for this position is September 1, 1997. *We encourage applications from underrepresented groups, including minorities, women, and people with disabilities. Search (97A309)*

COORDINATOR FOR DISTANCE LEARNING CREIGHTON UNIVERSITY

The School seeks applicants for an **ASSISTANT/ASSOCIATE PROFESSOR** with an earned doctorate in one of the health professions with experience in using various Internet-based computer technologies for delivery of distance education courses. Responsibilities will include coordinating the creation and delivery of Internet and Intranet-based materials for students, and supervising, developing and expanding the School's clinical computing network and WWW resources for students on clinical clerkships. The appointment is available July 1, 1997. The faculty member will be required to develop and teach an Internet-based distance learning technologies course. Applications accepted until the position is filled. Send curriculum vitae, four letters of reference, and description of research interests to: **Dr. Wayne Young, School of Pharmacy and Allied Health Professions, Creighton University, 2500 California Plaza, Omaha, NE 68178. FAX: 402-280-5738. Creighton University is an Affirmative Action/Equal Opportunity Employer.**

CANCER RESEARCH

Gifted **SCIENTISTS** are sought to participate in the exploration and potential commercialization of advanced cancer therapies based on immunologic, anti-angiogenic, and other noncytotoxic mechanisms. Candidates should have a Ph.D. or M.D. with a strong research orientation and an exceptional record of academic and/or industrial accomplishment in a relevant discipline, but specific experience in cancer research, while preferred, is not essential. Candidates should send curriculum vitae to: **Paul Cohen, 120 West 45th Street, 39th Floor, New York, NY 10036.**

FACULTY POSITIONS DEVELOPMENTAL BIOLOGY AND NEUROBIOLOGY

Morehouse College is inviting applications for two tenure-track positions in developmental biology and neurobiology at the **ASSISTANT PROFESSOR** level in the Department of Biology. Applicants should have a Ph.D., postdoctoral experience and a commitment to teaching and research in an undergraduate setting. Please send a full curriculum vitae and a cover letter by May 30, 1997 describing research and teaching interests and the names of three references to:

**J. K. Haynes, Ph.D.
Chair, Department of Biology
Morehouse College
830 Westview Drive S.W.
Atlanta, GA 30314**

Morehouse College is an Equal Opportunity Employer.

POSITIONS OPEN



Aquasearch Inc. is a rapidly-growing, Hawaii-based, marine biotechnology company specializing in microalgal products and photobioreactor technology. Expansion has created nine new positions.

We are advertising for the following positions:

- Director, Research and Development**
Ph.D., 10-15 years experience
- Research Photobiologist**
Experienced Ph.D.
- Research Algal Nutritionist**
Experienced Ph.D.
- Research Assistant—Microbiology**
M.Sc./G.Sc. plus experience
- Research Assistant—Chemistry**
M.Sc./G.Sc. plus experience

Detailed information about the positions on our Website: <http://www.aquasearch.com/>

Aquasearch offers a rewarding and stimulating scientific environment, and the opportunity to develop a unique career in marine biotechnology. It is our fundamental policy to recruit, develop, reward and promote persons in all areas solely on the basis of qualifications, skills and abilities. Please send your application, including a full curriculum vitae with three professional references, by confidential FAX: **808-923-4719**, by Email: **jemerick@ilhawaii.net**, or regular mail to: **VP Operations, Aquasearch, 73-4460 Queen Ka'ahumanu Highway, Suite 110, Kailua-Kona, Hawaii, USA 96740.** Closing date: May 31, 1997.

JUNIOR AND SENIOR FACULTY POSITIONS UCSF CANCER CENTER CANCER RESEARCH INSTITUTE

The Cancer Research Institute (CRI), a component of the UCSF Cancer Center, invites applications for several new **FACULTY POSITIONS**. We seek outstanding investigators trained in the areas of cancer biology, cancer genetics, and molecular therapeutics. Successful candidates will receive appointments in academic departments in the School of Medicine and in its graduate programs. New members of the Cancer Research Institute will join an exciting interactive research environment in state-of-the-art research facilities and participate in the development and implementation of an innovative graduate program in cancer biology.

Applicants should send a curriculum vitae, a short statement of research plans, and the names of at least three references to:

**Thea Tlsty, Ph.D., Chair
Cancer Research Institute Search Committee
c/o Tracey A. Lee
UCSF Cancer Center
1600 Divisadero Street, Room C126-A
San Francisco, CA 94143-1297**

The University of California is an Equal Opportunity/Affirmative Action Employer. Minority candidates and women are encouraged to apply.

SCIENTIST BIOCHEMISTRY/IMMUNOLOGY

American Diagnostica Inc., a profitable biotechnology company founded in 1982, has an immediate opening for a **SCIENTIST** in our Research and Development Laboratory. We develop, manufacture, and market diagnostic products for hemostasis and cancer prognosis, and have an established presence in over 30 countries. The successful candidate will employ a broad range of biochemical, molecular, and cellular techniques to devise innovative products for the diagnosis of cardiovascular disease and cancer. Candidates must have a Ph.D. in biochemistry or immunology, and five years of postgraduate experience. Successful candidates will have a documented record of scientific excellence, and facility with protein purification and characterization, hybridoma production, cell culture, gene expression, and receptor dynamics. Opportunities for advancement are commensurate with further achievement and leadership ability. We are located in a desirable suburban community readily accessible to New York City. Please submit a curriculum vitae with list of publications, and names and telephone numbers of three references.

**American Diagnostica Inc.
P.O. Box 1155
Greenwich, CT 06836-1155**

Clinical Research and Statistical Fellows

Cato Research Ltd., a rapidly growing clinical research organization located in Research Triangle Park, NC, has exciting opportunities for self-starters with a scientific background who want to learn and grow in a creative environment. The Clinical Research Fellows will receive training in the scientific, regulatory, medical and financial aspects of pharmaceutical development. The Statistical Fellow will receive training in data analysis, programming analyses and data displays in SAS and other areas of clinical trials data management. Ideal candidates will possess the following:

- ▼ Ph.D. in Biological Sciences or Statistics.
- ▼ Excellent written and verbal skills.
- ▼ Initiative and strong interpersonal skills.
- ▼ Ability for critical and analytical thinking.

CRL offers personal and professional growth opportunities, a competitive salary and an excellent benefits package. For consideration please send a resume and writing sample to: PC/HR, Cato Research Ltd., 4364 S. Alston Ave., Suite 201, Durham, NC 27713-2280. No phone calls or third party agencies, please. EOE.

CATO
RESEARCH

Postdoctoral Positions in Biophysics, Biochemistry and Biomathematics.

Two NSF-funded fellowships are available immediately for interdisciplinary studies of macromolecular assemblies in the following areas:

1. Computational analysis of atomic interactions: including development of holistic mathematical analysis of fundamental interactions, exploiting the complementarity of data from diffraction, NMR spectroscopy and electron microscopy. Candidates should have backgrounds in computational methods development in crystallography, NMR, EM or computational structural biology, or training in the mathematical/physical sciences combined with demonstrable interest in structural biology.
2. Structure and assembly of macromolecular complexes of fibroblast growth factor and receptor: the candidate will pursue structural analyses of soluble forms of fibroblast growth factor receptors and receptor/growth factor complexes. Candidates should have a background in X-ray crystallography, protein purification and molecular biology. Experience in baculovirus expression systems, and cell culture would be a plus.
3. Comparing protein motion in solution and the crystal. The fellow will develop an approach to completely map the dynamics of the C-terminal domain of the diphtheria toxin repressor protein by combining solution NMR spectroscopy and diffuse-scatter X-ray crystallography. Candidates should have a strong background in NMR spectroscopy or X-ray crystallography, with an interest in protein dynamics.
4. Protein dynamics as measured by EPR and X-ray diffraction methods: the candidate will develop "rules" governing the dynamics of spin labels attached to proteins of known structure. The dynamics observed in the spin labeled crystals using EPR will be compared to the diffuse scatter and the temperature factors from X-ray studies. The candidate should have background in magnetic resonance techniques or X-ray crystallography.

Consistent with these interdisciplinary fellowships, trainees will be mentored jointly by faculty from at least two fields: **Michael Blaber**, **Don Caspar** and **Michael Chapman** (crystallography), **Tim Cross** and **Tim Logan** (NMR), **Piotr Fajer** (EPR) and **Ken Taylor** (EM). Supplementing experimental facilities at the Institute of Molecular Biophysics, close ties are enjoyed with the National High Field Magnetic Laboratory and the Supercomputer Computation Research Institute on campus.

Candidates should send a resume and arrange for 3 letters of reference to be forwarded to the **Institute of Molecular Biophysics, Attn: Carolyn Moore/Post-doc. Fellow, Florida State University, Tallahassee, FL 32306-3015, USA**, prior to July 1st. The project of interest should be stated at the top of the resume. Additional information about the Structural Biology Program can be found at <http://www.sb.fsu.edu/>.

Florida State University is an Equal Opportunity/Affirmative Action Employer.



Molecular Biologist

Pherin Corporation is a pharmaceutical development company that is actively developing products which act on the central nervous system and/or neuroendocrine system.

We are seeking an outstanding scientist with at least four years of relevant postdoctoral experience to develop and implement strategies to isolate and characterize human neuroendocrine receptors, to study ligand/receptor interactions, and to assist the discovery of novel molecules that modulate receptor activity. This individual is expected to have extensive experience and demonstrated productivity in the area of molecular biology, particularly with methods related to the cloning and analysis of cDNA and genomic DNA, and to the study of receptor proteins. A strong background in experimental design and data interpretation is required, as are current knowledge of relevant scientific literature and emerging molecular biological techniques. The individual will be a member of a multi-disciplinary project team and is expected to work independently as well as to supervise other team members.

Job Qualifications

- Ph.D. degree with relevant postdoctoral experience and proven productivity.
- Extensive experience with basic molecular biological techniques, cDNA cloning and analysis, genomics, and receptor isolation and characterization, as well as relevant computer skills and mammalian cell tissue culture experience.

This position will be at the Pherin-sponsored facility located at the University of Utah in Salt Lake City, Utah.

Please send your resume to:

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BS/MS High-Throughput Screening Scientist

Elanco Animal Health, a division of Eli Lilly and Company, is accepting applications for an associate position in high-throughput screening. The associate will supervise the day-to-day functioning of a high-throughput screening lab within the discovery research area of the Animal Science Division. This individual will also participate in an innovative research program and be part of an interdisciplinary team with the following responsibilities: adapt novel drug targets to high-throughput screens, assist in robotics system validation of biological screens, serve as a resource for the identification of new technology for high-throughput screening, and supervise technicians in carrying out the day-to-day activities of the laboratory.

A BS or MS degree is required, with experience in biology and screening. Experience with innovative screen development techniques and in adapting novel screening techniques to high-throughput automation is desirable. Familiarity with robotics, instrumentation, and innovation screen development techniques is essential. The successful candidate should also possess strong computer, organizational and communication skills. Knowledge of general biological assay techniques is also essential.

Lilly
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For prompt consideration, please send resume and cover letter to: Eli Lilly and Company, Corporate Recruitment, Attn: ADSCMB115, Indianapolis, IN 46285. We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace.

KNOWLEDGE IS POWERFUL MEDICINE

POSITIONS OPEN

RESEARCH POSITION MAGNETIC RESONANCE IMAGING FACILITY UNIVERSITY OF NOTRE DAME

The Department of Physics invites applications from persons with a Ph.D. in physics, chemistry or biology for a **RESEARCH POSITION** in magnetic resonance microimaging. Specific research includes measurement of flow and coarsening in suspensions, liquid foams and polyurethane foams, as well as biological imaging. The successful applicant will work with researchers from biology, biochemistry, chemical engineering and physics, and is encouraged to conduct independent research within the scope of the facility. A background in MRI and knowledge in techniques required for microimaging, fast 2d and 3d acquisitions are required. Experience either with flow visualization or functional MRI of brain activity is desirable. Familiarity with IDI, and pulse sequence programming on Bruker DMX systems is useful. Applicants should submit curriculum vitae including previous salaries, and names of three references to: **Dr. James A. Glazier, Department of Physics, University of Notre Dame, Notre Dame, IN 46556**. Salary and level of appointment will depend on the experience of the candidate. Review of applications will begin immediately and will continue until the position is filled.

DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS CASE WESTERN RESERVE UNIVERSITY

The Department of Physiology and Biophysics invites applications for both **JUNIOR** and **SENIOR LEVEL FACULTY** positions. Suitable areas of research include, but are not limited to, membrane transport, membrane protein expression cloning, and cellular-molecular approaches to systems integrated physiology. We offer a highly competitive compensation package, ample start-up funds, and state-of-the-art research facilities. Salary and rank will be commensurate with qualifications and experience. Submit curriculum vitae, a brief statement of research interest(s), three representative reprints, and the names, addresses and telephone numbers of four references to: **Antonio Scarpia, M.D., Ph.D., Chairman, Department of Physiology and Biophysics, 10900 Euclid Avenue, Cleveland, OH 44106-4970**. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ENTOMOLOGIST

The United States Department of Agriculture (USDA), Agriculture Research Service (ARS), Bee Biology and Systematics Laboratory, Logan, Utah is accepting applications for a permanent, full-time **RESEARCH ENTOMOLOGIST**. Personal research programs will emphasize identification of natural products responsible for gregarious nesting behavior of bees that nest in the soil. Applicants must have: 1) Demonstrated knowledge and ability in semiochemicals in insect systems, with special emphasis on chemically mediated behavior in bees native to North America; 2) Experience with field-based ecological studies focused on determining the importance of non-Apis bee species as pollinators in natural and agricultural systems; and 3) Knowledge of insect morphology and physiology, with special emphasis in non-Apis bees. A Ph.D. in entomology or related discipline with emphasis in natural products chemistry is desired. Experience with statistical methods and computer programs are essential. Applicants must be U.S. citizens. Salary commensurate with experience (\$37,507 to \$69,492). For more information call: **Dr. William Kemp, Telephone: 801-797-2525**. For information on "how to apply", call: **John Watterson, Telephone: 801-797-3071**, or on the Internet at <http://www.ars.usda.gov/afm/hrd/vac2.html>. Applications in response to this advertisement must be marked ARS-X7W-0149 and postmarked by July 7, 1997. USDA/ARS is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available immediately at Northwestern University in Chicago, Department of CMS Biology, focusing on molecular and cell biology aspects of megakaryocytopoiesis and thrombopoiesis. Proficiency in tissue culture, protein chemistry and molecular biology techniques required. Please send curriculum vitae, description of research interests and experience, and the names of three references to: **Dr. Isaac Cohen; FAX: 312-908-1815; Email: i-c@nwu.edu**. An Equal Opportunity Employer.

POSITIONS OPEN

AGE-RELATED MACULAR DEGENERATION TWO ASSISTANT OR ASSOCIATE PROFESSOR POSITIONS Molecular and Cell Biologist Human Molecular Geneticist

Two new **FACULTY POSITIONS** are available in the Department of Ophthalmology and Visual Sciences at the Washington University School of Medicine for a basic scientist and a clinician-scientist to develop research programs on the etiology and underlying mechanisms causing age-related macular degeneration. Demonstrated expertise in molecular and cell biology and molecular genetics are required with previous experience in studying the retina preferred but not a prerequisite. The successful candidates will be expected to develop research programs that will interact with current ongoing faculty research efforts in the Department and at the University and be competitive for NIH support. The clinician-scientist should be Board-eligible/Board-certified and will have the opportunity to develop a consultative clinical practice in the Barnes Retina Institute and to participate in resident/fellow education.

Applicants should send their curriculum vitae, a statement of research interests, a selection of reprints of their published papers, and the names of three references to: **Arthur H. Neufeld, Ph.D., Chairman, Search Committee, Department of Ophthalmology and Visual Sciences, Washington University School of Medicine, Box 8096, 660 South Euclid Avenue, St. Louis, MO 63110**.

Washington University School of Medicine is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

PROTEIN BIOCHEMIST: The Department of Biochemistry, Microbiology and Molecular Biology at the University of Maine seeks a biochemist with research interests in protein-protein or protein-nucleic acid interactions to fill a tenure-track position at either the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, available September 1, 1997. Additional research experience in the molecular genetics or developmental biology of aquatic organisms is desirable. A Ph.D. and postdoctoral experience are required. The successful candidate will be expected to maintain a vigorous, extramurally-funded research program and contribute to teaching of the undergraduate and graduate curricula in biochemistry. Minimum salary is \$40,000 per academic year. Send a cover letter, description of research interests, curriculum vitae, and three letters of recommendation to: **Dr. Michael E. Vayda, Chair, Biochemistry Search Committee, 5735 Hitchner-BMMB, University of Maine, Orono, ME 04469-5735**. Review of applications will commence June 1, 1997 and applications will be considered until a suitable candidate is located. Women and minorities are encouraged to apply. The University of Maine is an Affirmative Action/Equal Employment Opportunity Employer.

The Department of Agronomy at the University of Kentucky invites applications for a **PLANT BIOCHEMIST**. Applicants must have a Ph.D. degree in plant biochemistry, plant physiology or a related field, and postdoctoral experience in biochemistry, molecular biology or other pertinent areas. The successful candidate will be expected to develop and maintain an extramurally-funded research program, and to be responsible for teaching a graduate level course in plant biochemistry. Priority research areas include seed biology/physiology, biochemical and molecular approaches to metabolic processes, structure/function relationships of macromolecules, and the biochemical basis of plant development. Review of applications will begin June 6, 1997. Candidates should provide a letter of application, a curriculum vitae, a description of research interests and have three letters of reference sent to: **Plant Biochemistry Search, Department of Agronomy, University of Kentucky, Lexington, KY 40546-0091**. Additional information: **Dr. Joe Chappell, Email: chappell@pop.uky.edu**. Equal Opportunity Employer.

A specialized cancer testing laboratory, with an emphasis in **CANCER RESEARCH**, located in Elmhurst, Illinois (Chicago area) is looking for an individual with knowledge in immunohistochemical staining and molecular biology. Knowledge of microscope-based image analysis will be advantageous. Educational levels of B.Sc. and M.Sc. will be considered, however a Ph.D. will be preferred. Position includes excellent benefits package and salary commensurate with experience. Starting date will be July 15, 1997 and no later than July 25th. Please send curriculum vitae including names of references to: **Dr. Sarah Bacus c/o Advanced Cellular Diagnostics, 925 South Route 83, Elmhurst, IL 60126**.

POSITIONS OPEN

ASSISTANT PROFESSOR VERTEBRATE PHYSIOLOGIST

The Department of Biology at Southwest Texas (SWT) State University invites applications for a **TENURE-TRACK POSITION** in vertebrate physiology with specialization in aquatic organisms. We are looking for an individual who utilizes physiological, cellular and/or molecular techniques in the study of whole-organism physiology. Applicants must have a Ph.D. and postdoctoral experience, and will be expected to develop an independent, externally-funded research program involving undergraduate and M.S. students. Teaching duties will include advanced undergraduate/graduate courses in vertebrate physiology, endocrinology and/or toxicology, and contribution to freshman biology. The Biology Department at SWT, a comprehensive state university of 20,000-plus students, consists of 35 faculty, 100 graduate students and 1300 undergraduate majors, and has strengths in aquatic biology, ecology and cell/molecular biology. Applicants should send a curriculum vitae, statements of teaching and research interests, and a list of three references with addresses (including Email) and telephone numbers to: **Dr. Francis Rose, Chair, Department of Biology, Southwest Texas State University, San Marcos, TX 78666-4616**. <http://www.bio.swt.edu/>. Deadline for receipt of applications is June 1, 1997 or until suitable candidate is identified.

TENURE-TRACK PHARMACOLOGY FACULTY

The Department of Pharmacology at the University of Illinois at Chicago (UIC) College of Medicine is accepting applications for tenure-track positions at the **ASSISTANT** and **ASSOCIATE PROFESSOR** levels. Applicants should have a Ph.D. or M.D. degree, postdoctoral experience, and in the case of Associate Professor applicants, demonstrated ability to direct a funded research program. Assistant Professor applicants should have clearly demonstrated the potential for establishing such a program. Preference will be given to individuals working in the areas of signal transduction, cell growth/differentiation/apoptosis, neuropharmacology, membrane structure/function, or structural biology. Start-up funds and laboratory space will be commensurate with the levels of the successful applicants. The Department of Pharmacology at UIC has maintained a strong record of graduate education and scholarly activity and is seeking qualified applicants to continue this tradition. Please forward a letter, complete curriculum vitae, a brief statement of research interests, and the names of three references to: **Faculty Search Committee, Department of Pharmacology (m/c 868), University of Illinois at Chicago, 835 South Wolcott, Room E403, Chicago, IL 60612**. For fullest consideration, please submit résumé by May 31, 1997. UIC is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE POSITION available to investigate the facilitation of anti-tumor immunity following stem cell transplantation. Ph.D. in biological sciences with a strong background in immunology. Send curriculum vitae and three references to: **Emmanuel Katsanis, M.D., AHSC, Department of Pediatrics, 1501 North Campbell Avenue, POB 245073, Tucson, AZ 85724-5073; Email: katsanis@peds.arizona.edu**. Review of applications will begin May 16, 1997. The University of Arizona is an Affirmative Action/Equal Employment Opportunity/Americans with Disabilities Act Employer—Minorities/Women/Disabled/Veterans.

ORGANIC/POLYMER CHEMIST

We seek a **PH.D. CHEMIST** experienced with biomolecular purification and affinity-based or other separation work to join a top team in Palo Alto, California. Candidate will lead chemistry implementation of world-class protein work for market introduction near-term. Position will be initially hands-on. Competitive cash compensation plus significant stock options. Fax résumé/curriculum vitae to: **Hockett Associates, Inc., FAX: 415-941-8817 or mail to: P.O. Box 1765, Los Altos, CA 94023**.

POSTDOCTORAL POSITION available immediately to study the role of interleukin-1 as an autocrine growth factor for vascular smooth muscle cells. Experience in vascular and molecular biology desirable. Send curriculum vitae and names of three references to: **Debbie Beasley, Ph.D., Box 172, Department of Medicine, Tufts New England Medical Center, 750 Washington Street, Boston, MA 02111. FAX: 617-636-1355; Email: debbie.beasley@es.nemc.org**.

**University of Illinois at Urbana-Champaign
Department of Crop Sciences**

Assistant Professor of Fungal Plant Pathology/Fungus-Plant Interactions

Fungal biologist/molecular biologist with emphasis on fundamental research and complementary teaching in the areas of fungal plant pathology and/or fungus-plant interactions. This is a 9-month tenure track position with opportunity for summer appointment. Responsibilities will be allocated as 75% research and 25% teaching appointments in the Department of Crop Sciences. The successful applicant is expected to develop a nationally recognized, extramurally-funded research program in an area of fungal plant pathology and/or fungus-plant interactions using modern molecular biological approaches. Research emphasis will be on fungi that cause disease on or otherwise interact with soybean and/or other major crop plants of Illinois. The incumbent will participate actively in the teaching program of the department to include offering formal courses in the areas of fungal plant pathology and/or fungus-plant interactions, advising undergraduate students, and directing graduate student research. The incumbent will teach a minimum of one course per academic year. A Ph.D. in plant pathology, microbiology, mycology, biology or other related areas in the life sciences is required. Postdoctoral experience and demonstrated ability to employ modern molecular approaches in a research program are preferred. The successful candidate must possess excellent interpersonal and communication skills, and be able to formulate, organize, direct, and carry out independent research. The candidate also must present the clear ability and desire to excel in classroom teaching and in advising undergraduate and graduate students. Salary commensurate with training and experience. Starting date is August 21, 1997, or when a suitable candidate is available. For full consideration, applications will be accepted until June 1, 1997, or thereafter until a suitable candidate is identified. Interested persons should assemble an application packet consisting of an introductory cover letter, a curriculum vitae, and a personal statement of research goals and teaching interests. The packet should be sent to: **Professor G. H. Heichel, Head, Department of Crop Sciences, University of Illinois at Urbana-Champaign, 1102 South Goodwin Avenue, Urbana, Illinois 61801. Telephone (217) 333-9480.** Applicants must also arrange to have a full set of certified university transcripts and three letters of recommendation sent to the same address, all to arrive on or before the closing date. For additional information, contact: **Dr. Stephen K. Farrand, Department of Crop Sciences, University of Illinois at Urbana-Champaign, 240 ERMIL, 1201 West Gregory Drive, Urbana, Illinois 61801-4798. Telephone: (217) 333-1524.**

The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Please cite announcement number 04/97A-5497 when applying.

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Baxter International is a worldwide company, and a Fortune 150 leader in the health care industry. We are constantly looking toward the future while still staying focused on our primary objective of providing technologically innovative products in a global marketplace. Our commitment to global health care has become more focused with each patient we help. Currently, we have the following position available in Biomedical Resources in Corporate Research and Technical Services.

Research Scientist – Microbiology

The qualified candidate will be responsible for the application of current and future technology in the field of microbiology related to pyrogens and endotoxin.

We require a Ph.D. in Microbiology with 3+ years experience in the general area of pyrogens and endotoxin, including application to sterilization technology. Specific emphasis of the job includes application of current and future technology in the field to the pharmaceutical industrial and manufacturing setting for medical devices, parenteral products, and biologics. You must also be experienced in cytokines, membranes, bioburden, and LAL testing. Excellent interpersonal skills are essential as well as a familiarity with computers, including databases, spreadsheets and word processing.

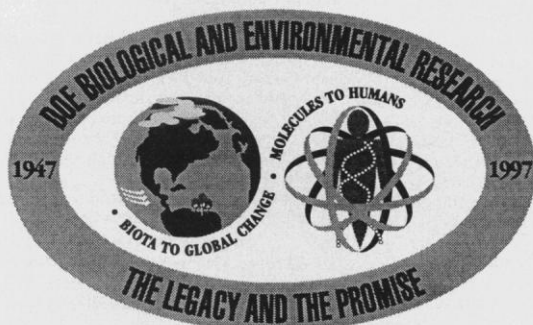
Baxter offers solid advancement potential and an excellent compensation and benefits package. For consideration, please send your resume and salary history to: **Baxter International, Dept. CRTS-HR, Rt. 120 & Wilson Rd., Round Lake, IL 60073.** Pre-employment drug and background screening will be conducted. An Equal Opportunity Employer.

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CELL SIGNALING AND TUMOR ANGIOGENESIS

September 11-14, 1997

Sponsored by:

W. Alton Jones Cell Science Center, Inc.

Organizing Committee:

Thomas Maciag, J. Denry Sato, Martin Tenniswood

Topics include: Developmental biology of microvascular endothelial cells; Integrin signaling in angiogenesis; Angiogenic receptor signaling; Regulation of angiogenesis and therapeutic approaches; Potential cooperative receptors in angiogenesis.

Keynote Address: Judah Folkman

SPEAKERS

**Kari Alitalo • Liliana Attisano • Robert Auerbach
David Cheresch • Elisabetta Dejana • Chuxia Deng
Napoleone Ferrara • Susan Fisher • Mark Ginsberg
Jan Kitajewski • Thomas Maciag • Joseph Madri
Wallace L. McKeehan • Michael O'Reilly • Thomas
Quertermous • Daniel Rifkin • Jean E. Schwarzbauer
Elizabeth Tournier-Lasserre • Gerry Weinmaster
Jörg Wilting • Sonyang Zhou**

**Registration forms may be obtained from: The
Organizing Committee, W. Alton Jones Cell Science
Center, 10 Old Barn Road, Lake Placid, NY 12946
Tel (518) 523-1252 Fax (518) 523-1849
Email: voliver@cell-science.org**

POSITIONS OPEN

ASSISTANT PROFESSOR OF MICROBIOLOGY UNIVERSITY OF PENNSYLVANIA

The Department of Pathobiology, Laboratory of Microbiology and Immunology, in the School of Veterinary Medicine, University of Pennsylvania (PENN) is seeking an outstanding scientist for a tenure-track faculty position, preferably at the **ASSISTANT PROFESSOR** level. The candidate must have a Ph.D. or a combined Ph.D./V.M.D./M.D. degree and extensive postdoctoral training. The successful candidate is expected to develop a high-quality, independent research program in basic viral-host or bacterial-host interactions funded by extramural support. The School of Veterinary Medicine is located on the same campus as the Schools of Medicine and Dental Medicine as well as undergraduate departments of the University and the nearby Wistar Institute. The PENN campus thus offers opportunities for collaborative research in many areas of infectious disease. The successful candidate will be expected to participate in the teaching program of the school. Faculty in many biomedical areas are involved in a well-established integrated program of graduate student and postdoctoral training. Applicants should send a letter that includes a statement of research interests, curriculum vitae and bibliography. The candidate should also include a list of three referees and arrange to have letters of recommendation sent directly to the Chair of the Search Committee. The completed application should be received by July 15, 1997 and should be sent to:

Dr. Roselyn J. Eisenberg
Professor of Microbiology and Chair of the
Search Committee
Laboratory of Microbiology and Immunology
School of Veterinary Medicine
4010 Locust Street
Philadelphia, PA 19104-6002

PENN is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from qualified females and minorities.

FT-ICR MASS SPECTROMETRY BIOLOGICAL APPLICATIONS MANAGER National High Magnetic Field Laboratory

A new **ASSISTANT SCHOLAR-SCIENTIST** position is designed to advance the biological capabilities of high-field FT-ICR mass spectrometry. This individual will develop techniques for purification, identification and structural analysis of biomolecules, assist the Director, advise and assist users for the NSF National High-Field FT-ICR MS Facility, and develop collaborative and potentially independent research projects. A Ph.D. and postdoctoral experience in a biologically related field is required and previous experience in biological mass spectrometry is desirable. Submit graduate transcript, updated curriculum vitae including publications and presentations, one page on prior research accomplishments, and list of reference individuals to: **Prof. Alan G. Marshall, Director, ICR Program, National High Magnetic Field Laboratory, Florida State University, 1800 East Paul Dirac Drive, Tallahassee, FL 32310.** (Reference Position #63872) **Telephone: 904-644-0529; or Email: marshall@magnet.fsu.edu** for additional details. Salary \$45,000-\$52,000 per year with full benefits. *Florida State University is an Affirmative Action/Equal Opportunity Employer and encourages minority and women applicants.*

Johns Hopkins POSTDOCTORAL FELLOWSHIP in HIV Immunology and Pathogenesis: M.D. or Ph.D. in immunology, molecular biology, biophysics, or biochemistry; available any time in 1997. Requires strong background in immunology and HIV, publications, fluency in English, quantitative skills, and knowledge of literature. Send curriculum vitae, telephone numbers of three references, and description of research interests to: **David Schwartz, M.D., Ph.D., Molecular Microbiology and Immunology, Johns Hopkins School of Hygiene, Baltimore, MD 21205; FAX: 410-955-2791.** *An Equal Opportunity Employer.*

POSITIONS OPEN



ATCC
Human Resources
12301 Parklawn Drive
Rockville, MD 20852
fax 301-998-8771

AMERICAN TYPE CULTURE COLLECTION Division Directors and Research Scientists for Microbiology and Cell, Developmental and Molecular Biology/Genetics

The American Type Culture Collection (ATCC), a global bioscience organization and a leading germplasm resource for intellectual and economic development, is seeking two dynamic individuals to direct scientific research and manage the Microbiology Division (Bacteriology, Mycology, Protistology and Virology) and the Division of Cell, Developmental and Molecular Biology/Genetics. These divisions maintain the world's most comprehensive resources of microorganisms, cell lines and DNA materials, and deal with most facets of the biological sciences and technology in the United States and abroad.

In 1998 the ATCC will relocate its operations to a modern, custom-designed facility in Prince William County, Virginia, and will have a joint interest with George Mason University (GMU) in the Institute of Bioscience, Bioinformatics and Biotechnology (IB3) on the Prince William campus of GMU. The IB3 and ATCC will serve as a nucleus for a research and commercial biotechnology center and enable the ATCC to continue its tradition of service and research to the scientific community.

The successful candidates must have Ph.D. degrees in microbiology, cell biology or a related science, a minimum of eight years of relevant research experience to include the management of a sizeable research team, and a proven track record in project management and external research funding. These two individuals will provide scientific, technical, fiscal and strategic leadership for each respective Division. Resumes with salary history should be sent to:

ATCC
ATTN: HR/DD
12301 Parklawn Drive
Rockville, MD 20852
FAX: 301-998-8771

*Equal Opportunity Employer
Minorities/Females/Disabled/Veterans*

BIOPHARMACEUTICAL FILTRATION RESEARCH AND PRODUCT DEVELOPMENT

Advanced Minerals has an opportunity for an individual with detailed knowledge of production-scale biopharmaceutical, biotechnical, and plasma fractionation filtration/separation processes. This position will manage creative product research and filtration research programs related to these fields. An advanced degree, preferably M.S., Ph.D. or M.D., is required, with five years of industrial experience that includes a distinguished track record in processing therapeutic products from cellular, biotechnical, or hematological sources. In-depth "hands-on" knowledge and experience with cell culture, as well as analytical techniques applied to histology, hematology, serology, and cytology, including HPLC, PAGE, and automated methods of cytometry and protein serology, are needed for the position. The successful candidate will work with the dynamic and highly innovative research team and product development team located on the beautiful central coast of California. Substantial travel may be required.

We offer an excellent benefits package and relocation assistance. Please send your resume, which must contain your salary history to: **SCIENCE, Box 75, 1200 New York Avenue, NW, Washington, D.C. 20005.** *Equal Opportunity Employer, Minorities/Females/Veterans/Disabled.*

The NSF-supported Research Training Program in Plant-Insect Interactions at The University of Arizona invites applications for **POSTDOCTORAL and GRADUATE POSITIONS**. A major focus of interest is the model plant *Arabidopsis thaliana*. Further information can be obtained from our Website: <http://ag.arizona.edu/pii-rtg>. The application deadline is June 2 or until positions are filled. Please note, according to the conditions of the grant, applicants must be citizens, nationals, or permanent residents of the United States. *The University of Arizona is an Affirmative Action/Equal Opportunity/Americans with Disabilities Act Employer. Women and minorities are urged to apply.*

POSITIONS OPEN

GEORGE MASON UNIVERSITY INSTITUTE FOR BIOSCIENCES, BIOINFORMATICS AND BIOTECHNOLOGY

The Institute for Biosciences, Bioinformatics and Biotechnology (IB3) at George Mason University invites applications and nominations of outstanding candidates for **FACULTY RESEARCH and TEACHING** positions. New facilities and resources for the IB3 will support ten new faculty appointments in 1997-1998. Three of these ten appointments will be at a senior level, as leadership positions for the three core research domains of the Institute:

Bioinformatics and Computational Biology—sequence arrays as algorithmic substrates, genome database organization and mining, optical computation and holographic memory, pattern recognition and image analysis, biologically inspired computational models (genetic algorithms, neural networks, machine learning, autonomous robotics), modeling of complex biological and molecular processes;

Microbial Genomics and Diversity—sequencing and analysis of bacterial and viral genomes, variations of genome organization and function, metabolic and phylogenetic network models, remote sensing of microbial populations for environmental monitoring and remediation, combinatorial chemistry and industrial microbiology; and

Eukaryotic Genomics and Diversity—allelic identity and population diversity, forensic and diagnostic technologies, *in vitro* cultivation and preservation, complex phenotype-genotype correlation, population genetics and epidemiology, multiple determinant disease processes, parallel analytic approaches to functional genomics.

The IB3 is a unique consortium of George Mason University, the Commonwealth of Virginia, Prince William County, and the American Type Culture Collection (ATCC). The Institute undertakes challenges from this consortium in the areas of workforce training, professional education and community service, multi-disciplinary approaches to basic and applied research in the life sciences, and collaborative development, application and distribution of innovative biotechnology. Please browse our WWW sites for further information: <http://www.ib3.gmu.edu>, <http://www.atcc.org>, and <http://www.innovatepvc.com>.

A new campus of George Mason University is under construction in Prince William County, near Manassas, Virginia. Two new academic buildings provide 100,000 sq. ft. for the research and teaching activities of the Institute. The IB3 offers extensive shared instrument resources for its faculty and collaborators, including a high throughput automated DNA sequencing and mapping facility, and a dedicated parallel mainframe computer/server with high performance network backbone. The new campus is surrounded by about 1200 acres of Prince William County zoned for economic development, with infrastructure in place to support high technology research and development enterprises. Current on-site operations include Dominion Semiconductor (IBM/Toshiba), Lockheed-Martin, and the American Type Culture Collection.

Applications including curriculum vitae and three letters of reference should be forwarded to:

**Office of the Director, IB3
George Mason University, MSN 3A2
4400 University Drive
Fairfax, VA 22030-4444**

Review of applications will begin in April 1997 and will continue until each position has been filled.

Demonstrated ability to effectively work and communicate with a diverse university population is required. Women and minority candidates are encouraged to apply for these positions. George Mason University is an Equal Opportunity/Affirmative Action Employer Organization.

ASM/NCID POSTDOCTORAL RESEARCH POSITIONS IN MICROBIOLOGY

Positions are available for **POSTDOCTORAL SCIENTISTS** to conduct novel research with the overall objective of developing practical applications of microbiology, immunology, and epidemiology for diagnosis and prevention of infectious diseases. Associates will perform research in residence at the National Center for Infectious Diseases which is headquartered at the Centers for Diseases and Control and Prevention in Atlanta, Georgia.

Deadline for applications is November 15, 1997.
Website: <http://www.asmsa.org/edusc/edu23c.htm>.
Email: Fellowships-CareerInformation@asmsa.org.



Research Associates/Postdoctoral Fellows

Interested in joining an established research program at the Mayo Clinic to determine the molecular basis of antibody-induced repair of demyelinated lesions in the central nervous system? This well funded program provides unique opportunities to work interactively with two established scientists who bring a blend of molecular, biochemical, cellular, genetic, and medical perspectives to the investigation of remyelination in animal models of CNS injury, with the specific goal of extending these concepts to the treatment of human disease. Applications from investigators with a Ph.D. degree or M.D./D.V.M. degree with laboratory-based research experience are invited. Send curriculum vitae and the names of three references to:

Larry R. Pease, Ph.D. (Pease.Larry@Mayo.edu)

Department of Immunology

**Department of Biochemistry and Molecular Biology
and**

Moses Rodriguez, M.D. (Rodriguez.Moses@Mayo.edu)

Department of Neurology

Department of Immunology

Mayo Clinic

200 1st Street SW

Rochester, MN 55905

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

BIOTECHNOLOGY OPPORTUNITIES

Progenics Pharmaceuticals, Inc. is a biopharmaceutical company specializing in the development of therapeutics and vaccines for the management of cancer and HIV infection. The company is situated on an attractive campus in Westchester County, 20 miles north of Manhattan. Our rapid expansion is creating opportunities for scientists and managers at all levels. We are particularly interested in individuals for the following positions:

**EXCITING
CAREER**

Opportunities

STAFF SCIENTISTS/ INVESTIGATORS

Ph.D. and a minimum of 2 years' post-doctoral experience in immunology, molecular biology or virology are required. Industrial and/or supervisory experience a plus. Expertise required in one or more of the following: optimization of protein expression in mammalian cells, monoclonal antibody production and characterization, vaccine development or radioconjugation of antibodies and ligand binding analysis.

RESEARCH ASSOCIATES

Individuals with a B.S. or M.S. and a background in one or more of the following areas: immunology, cell and molecular biology or virology.

Candidates should send their C.V., a description of their experience and the names and addresses of three references to:

**Human Resources, Progenics
Pharmaceuticals, Inc., P.O. Box
549, Tarrytown, NY 10591. EOE.**

Progenics

Staff Scientist - Neurophysiology EPILEPSY RESEARCH

The Hospital for Sick Children, a health care, teaching and research centre dedicated exclusively to children; affiliated with the University of Toronto, currently has an opportunity in their Epilepsy Research Program and Division of Neurology, for an experienced Staff Scientist. This position calls for a relevant Ph.D. and the ability to effectively participate in both clinical and basic neuroscience research.

You have extensive training in neurophysiology enhanced by postdoctoral training in cellular/synaptic neurobiology with a focus on signal transmission at synapses and/or the control of neuronal excitability as they relate to the process of epileptogenesis.

Successful candidates will be expected to apply for cross-appointment at the University of Toronto at a similar level. We invite qualified individuals to forward their curriculum vitae by August 15, 1997, to: **O. Carter Snead III, MD, Head, Division of Neurology, The Hospital For Sick Children, 555 University Avenue, Toronto, ON M5G 1X8 Canada.** In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.



**THE HOSPITAL
FOR SICK CHILDREN**



University of Toronto.

Medicine At The Core Of Life

Few biotechnology companies can offer you the promise and excitement of Gilead Sciences. We are a leader in the discovery and development of a new class of broad spectrum antiviral therapeutics that may provide powerful new treatments for CMV retinitis, HIV, influenza and other viruses. Here, you'll be a part of a company that takes pride in its achievements, knowing that patients may benefit from the products we create. Come join us in the following exciting opportunity.

RESEARCH SCIENTIST MOLECULAR MODELING

You will be part of the Structural Chemistry Group interacting with chemists and biologists in our Drug Discovery Group. You'll use your expert knowledge to perform molecular modeling of small and large molecules. Your PhD should be supported by 2-3 years' experience in a broad range of structural/bio-physical chemistry.

At Gilead, we are committed to developing important treatments for a wide range of viral diseases, from influenza to AIDS. As you will discover, we are as committed to opportunity as we are to scientific achievement. Interested candidates should send a resume to: **Human Resources, Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, CA 94404, fax (415) 573-4800.** We are proud to be an equal opportunity employer.

**GILEAD
SCIENCES**

POSITIONS OPEN

NMR POSITIONS AVAILABLE AT NHMFL

The National High Magnetic Field Laboratory (NHMFL), an NSF and State of Florida funded National Laboratory, is dedicated to the development of very high magnetic fields and the science that can be investigated at such fields. We invite applications for three **ASSISTANT SCHOLAR-SCIENTIST** positions in NMR spectroscopy and microimaging. Unique instrumentation includes: 89 mm bore 400 MHz system with superconducting probe for solution spectroscopy; 89 mm bore 600 MHz instrument for microimaging, *in vivo*, flow, and solids NMR; high-resolution 720 MHz pumped magnet system; 32 mm bore 830 MHz instrument for solids; and a 1030 MHz resistive magnet for solids. A 110 mm bore 900 MHz high-resolution magnet is scheduled for installation in 1998. Successful candidates will work closely with in-house and external users to develop collaborative and potentially independent research projects and will be responsible for coordinating the use, optimization, and maintenance of NMR instruments at NHMFL. A Ph.D. and at least two years of postdoctoral experience are required. Candidates with a strong background in instrumentation and method development are especially encouraged to apply. Salary will be commensurate with experience. The Assistant Scholar-Scientist position is on a track to Associate and Full Scholar-Scientist positions.

(1) **High Resolution Biomolecular NMR Spectroscopy**—In addition to the instrumentation described above for multi-dimensional heteronuclear NMR, the lab also has a similarly-equipped Varian Unityplus 500. Demonstrated expertise in various aspects of high-resolution NMR, including determining the structures and dynamics of proteins, nucleic acids, or carbohydrates in solution, isotope labeling strategies, and pulse sequence development, is required. (Reference Position #55571)

(2) **Solid State NMR Spectroscopy**—A wide variety of lower-field spectrometer systems is available from Bruker, Chemagnetics and Tecmag. The successful candidate should be versed in magic angle spinning and non-spinning forms of solid state NMR spectroscopy. A broad range of application expertise and knowledge in chemistry and biochemistry is desirable. High-field applications and development experience is especially desirable. (Reference Position #55569)

(3) **NMR Microimaging and Spectroscopy**—Demonstrated experience in NMR image acquisition, reconstruction, and analysis, rf probe optimization, and localized, multinuclear spectroscopy is required. Current work at the NHMFL emphasizes NMR diffusion and other transport measurements in biological and other materials (89 mm 600 MHz microimaging system). A 500 MHz 89 mm bore microimaging system will be installed in 1997. (Reference Position #55429)

Consideration of applicants will begin immediately and continue until the positions are filled. Submit a curriculum vitae and a research plan specifying one of the three above-listed areas, arrange for a graduate transcript and names of three references. Submit to: **NMR Scholar-Scientist Search Committee, National High Magnetic Field Laboratory, Florida State University, 1800 East Paul Dirac Drive, Tallahassee, FL 32310. FAX: 904-644-1366.** Florida State University is an Affirmative Action/Equal Opportunity Employer and encourages minority and women applicants.

Ecology: Mount Holyoke College seeks a one-year **POSTDOCTORAL RESEARCH FELLOW** in ecology (start July 1, 1997) who designs and implements laboratory investigations in aquatic biology for an intermediate ecology and evolution course. Teaching responsibilities are two laboratories per week or one laboratory and 15 lectures during the spring. A course in the applicant's specialty and supervising undergraduate research are possible. Mount Holyoke College is an undergraduate liberal arts college for women that encourages both teaching and research by its faculty and research participation by its science students; the college has excellent research facilities. Review of applications will begin on May 19, 1997. Persons interested should send résumé, description of research interests and accomplishments and three letters of recommendation to: **Diana B. Stein, Chair, Department of Biological Sciences, Mount Holyoke College, South Hadley, MA 01075.** Mount Holyoke College is committed to fostering cultural diversity and multicultural awareness in its faculty, staff and students and is an Equal Opportunity, Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL POSITION. Molecular biology studies on multidrug resistance with a focus on the multidrug resistance associated protein gene. Send curriculum vitae to: **Dr. Melvin Center, Division of Biology, Kansas State University, Manhattan, KS 66506. FAX: 913-532-6653.** KSU is an Equal Opportunity Employer and encourages applications from women and minorities.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE POSTDOCTORAL POSITION

Available immediately to study the molecular and genetic mechanisms of malaria pathogenesis. Current work focuses on the pathways of copper and iron metabolism in *Plasmodium falciparum* and related parasites and potential sites for therapeutic intervention (see *PNAS* 93:14030, 1996; *Hum. Mol. Gen.* 5:1989, 1996; *J. Biol. Chem.* 272:9221, 1997). Experience in molecular biology and parasitology is required. Send curriculum vitae and names of references to: **Dr. Jonathan D. Gitlin, Washington University School of Medicine, 660 South Euclid, Box 8116, St. Louis, MO 63110; Email: gitlin@kids1.wustl.edu.** Washington University is an Equal Opportunity/Affirmative Action Employer, Minorities/Females/Disabled/Veterans.

POSTDOCTORAL RESEARCH ASSOCIATE NUCLEAR HORMONE RECEPTORS

Position available beginning July 1, 1997 for an NIH-funded study of the molecular basis of ecdysteroid action in the mosquito. Research includes analysis of DNA binding properties of the ecdysteroid receptor and its partner Ultraspire, a retinoid X receptor homologue; and identification and analysis of nuclear receptors involved in mediating and repressing gene transactivation by the ecdysteroid receptor. Research experience in molecular biology and biochemistry is required. Send curriculum vitae, list of publications, and names, addresses, and telephone numbers of three professional references to: **Dr. Alexander S. Raikhel, Professor, Program in Genetics and Department of Entomology, S-136 Plant Biology Building, Michigan State University, East Lansing, MI 48824, USA. Telephone: 517-353-7144; FAX: 517-353-3396; Email: araikhel@ibm.cl.msu.edu.**

POSTDOCTORAL OR JUNIOR FACULTY POSITION

Rush Cancer Institute of the Rush-Presbyterian-St. Luke's Medical Center, Rush Medical College, is seeking a **MOLECULAR BIOLOGIST** who is interested in human myeloid leukemia and stem cell biology to participate in an NIH-funded myeloid leukemia research program in a multidisciplinary environment. Experience in gene regulation, antisense techniques and stem cell gene transfection are essential. Faculty appointment possible with appropriate experience. Applicant should send curriculum vitae with bibliography, description of research interests and goals, and names of three references to: **Recruitment and Career Services, HB419055, Rush-Presbyterian-St. Luke's Medical Center, 729 South Paulina, Chicago, IL 60612. FAX: 312-942-3212.** Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.

MULTIDISCIPLINARY POSTDOCTORAL TRAINING

A new National Science Foundation Biology Research Training Group at the University of California, Davis, invites **POSTDOCTORAL** applications from United States citizens and permanent residents. This multidisciplinary program is designed to provide biologists with sufficient mathematical skills and applied mathematicians with sufficient biological knowledge to solve problems in cell physiology, neurobiology, biofluidynamics, ecology, and population biology. Applicants should see the Research Training Group webpage <http://www.itd.ucdavis.edu/rtg> for information about applications, which are due by June 1, 1997.

POSTDOCTORAL POSITIONS at Emory University: Postdoctoral positions available to study mechanisms of signal transduction and interactions between coexisting adrenergic receptor subtypes. Contact: **Dr. Kenneth P. Minneman, Department of Pharmacology, Emory University, Atlanta, GA 30322.**

Email: kminneman@pharm.emory.edu
<http://www.emory.edu/pharmacology/minneman>

POSITIONS OPEN

POSTDOCTORAL RESEARCH FELLOWSHIP IN T-CELL SIGNALING DIVISION OF TUMOR IMMUNOLOGY Dana-Farber Cancer Institute

Available immediately for cellular immunologist or molecular biologist to study the role of protein-tyrosine kinases (p56lck), SH2 domain binding proteins, TcR/CD3, CD4, and CD28 signaling in the regulation of T-cell growth. Background in signal transduction is desirable but not essential. Candidate should have an M.D. and/or Ph.D. Send résumé and three letters of recommendation to:

**Dr. Christopher Rudd
Division of Tumor Immunology
Dana-Farber Cancer Institute
44 Binney Street
Boston, MA 02115**

Telephone: 617-632-3574; FAX: 617-632-5259

FIGHT-OR-FLIGHT SYSTEM

POSTDOCTORAL-LEVEL position available in autonomic research laboratory. Individual with background in physiology or neuroanatomy who wishes to gain or expand their research experience on the emotional basis of autonomic control using viral tracing techniques. Please send curriculum vitae and names/telephone numbers of three references to:

Arthur D. Loewy, Ph.D.

**Department of Anatomy and Neurobiology
Washington University School of Medicine
660 South Euclid Avenue
St. Louis, MO 63110**

Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION—BIOMATERIALS

INEB, the institute for biomedical engineering of the University of Oporto (Portugal), is seeking a **POSTDOCTORAL FELLOW** in the area of cell and molecular biology to participate in the development of implant materials for bone replacement. The candidates should be able to integrate in a multidisciplinary environment and collaborate in international projects, mainly with European groups.

Interested candidates should send a curriculum vitae, including list of publications, and two reference letters to: **Prof. Mário Barbosa, INEB-Mat, Rua do Campo Alegre, 823, 4150 Porto, Portugal. FAX: 351-2-6094567; Email: inebmat@ip.pt.**

POSTDOCTORAL POSITION THE PENNSYLVANIA STATE UNIVERSITY Roles of the Cytoskeleton in Cell Polarity

Available immediately, to study the roles of the *Drosophila* membrane-associated cytoskeleton in epithelial cell polarity, signaling, and shape. Experience in molecular or cell biology, or any genetic model system, is desirable. Send curriculum vitae and the names of three references (include Email addresses) to: **Dr. Graham H. Thomas, Department of Biology, The Pennsylvania State University, 208 Mueller Laboratory, University Park, PA 16802. Telephone: 814-863-0716; WWW: <http://www.bmb.psu.edu/thomas>.** (Applications accepted until position is filled.)

An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL FELLOWSHIP TUMOR IMMUNOLOGY

Johns Hopkins University School of Medicine

A **POSTDOCTORAL FELLOWSHIP** is available to study human antitumor immune responses. Candidates should have experience working with T cells and background in molecular biology. Send curriculum vitae to: **Dr. Elizabeth Jaffee, JHU, 720 Rutland Avenue, Ross 350, Baltimore, MD 21205. Email: ejaffee@welchlink.welch.jhu.edu.** The JHU is an Equal Opportunity/Affirmative Action/Americans with Disabilities Act Employer, and actively encourages interest from minorities and women.

POSTDOCTORAL POSITION

Available immediately to conduct research on the active sites of dehydrogenases and other nucleotide binding enzymes using site-directed mutagenesis and affinity labeling. Recent Ph.D. in biochemistry and/or molecular biology required. Send curriculum vitae and three references to: **Dr. Roberta F. Colman, Department of Chemistry and Biochemistry, University of Delaware, Newark, DE 19716.** An Equal Opportunity/Affirmative Action Employer.



4TH INTERNATIONAL
MARINE
BIOTECHNOLOGY
CONFERENCE



Under the aegis
of the European
Union

Organized by
Stazione Zoologica
'Anton Dohrn' Naples



4th International Marine Biotechnology Conference IMBC '97

FINAL ANNOUNCEMENT

22-29 September 1997

Sorrento, Paestum, Capo Rizzuto, Otranto, Pugnochiuso - Italy

International Organizing Committee

Harlyn O. Halvorson, Dartmouth, USA, *Chair*
David Attaway, Silver Spring, USA
Joe T. Baker, Canberra, Australia
Rita R. Colwell, College Park, USA
Ricardo Guerrero, Barcelona, Spain
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Tadashi Matsunaga, Tokyo, Japan
Shigetoh Miyachi, Tokyo, Japan
Jan A. Olafsen, Tromsø, Norway
Dennis A. Powers, Pacific Grove, USA
Harold Rosenthal, Kiel, Germany
Gaetano Salvatore, Naples, Italy

National Organizing Committee

Lucio Cariello, Naples, Italy, *Chair*
Lorenzo Colombo, Padua, Italy
Giacchino De Vivo, Naples, Italy
Roberto Di Lauro, Naples, Italy
Donato Marino, Naples, Italy
Franco Rollo, Camerino, Italy
Bruno Tota, Cosenza, Italy
Silvana Vallerga, Torregreande, Italy

International Program Committee

Frank Gannon, Heidelberg, Germany, *Chair*
Daniel Chourrout, Jouy en Josas, France
Roberto Di Lauro, Naples, Italy
Hillel Gordin, Eilat, Israel
Shigeaki Harayama, Iwate, Japan
Jennie C. Hunter-Cevera, Berkeley, USA
Holger W. Jannasch, Woods Hole, USA
Peter Murphy, Townsville, Australia
Jay Parsons, St. John's, Canada
Manfred Scharl, Würzburg, Germany
Kazuo Tachibana, Tokyo, Japan

IMBC'97 will be held in southern continental Italy starting in Sorrento on September 22 and will end in Naples (or Rome) on September 29, 1997. The program will consist of two phases:

Phase I

will take place in Sorrento (September 22 - 24) and will focus on oral presentations and poster sessions. A total number of 450 abstracts have been submitted and have gone through the selection procedure of the International Program Committee. The Conference Program outlined below is the result of this stringent peer review.

Phase II

will consist of a working tour with stops in Paestum (Sep. 25), in Capo Rizzuto (Sep. 26), in Otranto (Sep. 27) and in Pugnochiuso (Sep. 28). In the evening, Keynote Lectures will be delivered by: B.S. Blumberg, Philadelphia, A. Kornberg, Stanford, M. Rodbell, Research Triangle Park, H.K. Schachman, Berkeley, M. Smith, Vancouver and will be followed by Workshops specifically designed to identify the most significant current issues in Marine Biotechnology, development of applied research Marine natural growth will also



Accommodation, meals and during the Conference will be grant from the E.U. (European the Italian Government and Zoologica 'Anton Dohrn' of The E.U. aims at fostering development in Marine areas included in the A fee of only US\$ 300 is due for related to the organization. Upon request, this fee might be waived to scientists from developing countries, especially young investigators and students. Because of the rules imposed by the granting agencies the program is totally integrated and **attendance for the entire length of Phase I and Phase II is mandatory**. If for any reason, a participant is forced to leave before the end of the Conference (September 22 through 29) he has to cover the entire cost of his expenses (travel and lodging) in southern Italy. No travel grants to and from the Conference venue are foreseen. Researchers and investigators that cannot afford international travel costs, could apply to their own National ad hoc Committees. Attendance is limited to 500 participants. Applications for participation to the Conference will be accepted until May 31st, 1997.

Program Synopsis

Oral Sessions

- O1 Molecular Biology and Transgenic Animals
- O2 Natural Products and Processes
- O3 Aquaculture
- O4 Developmental Biology
- O5 Biology of Cell Factories
- O6 Bioremediation, Extremophiles, Host-Pathogen Interactions
- O7 Biodiversity, Environmental Adaptation and Evolution
- O8 Biomarkers, Symbiosis, Viruses

Poster Sessions

- P1 Regulation of Gene Expression and Molecular Cloning
- P2 Protein Activities and Physiological Effects

- P3 Marine Biomolecules
- P4 Cultured Marine Resources

Workshops

- W1 Biodiversity
- W2 Molecular Evolution and Biomarkers
- W3 Gene Regulation and Biological Models
- W4 Fatty Acid Production and Metabolism
- W5 Fisheries and Population Genetics
- W6 Enzymes
- W7 Natural Products
- W8 Aquaculture
- W9 Policy
- W10 Bioremediation and Ecotoxicity
- W11 Antifouling Processes

For further information and advance registration contact: **IMBC '97**, Attn. **Donatella Capone**, Stazione Zoologica 'Anton Dohrn', Villa Comunale, I-80121 Naples, Italy. Tel.: +39-(0)81-5833.215 - Fax: +39-(0)81-764.1355 E-mail: imbc@alpha.szn.it

SCIENTIST Plant Molecular Biology

THE COMPANY Philip Morris is the world's largest consumer packaged goods company. Our Biotechnology Research Unit of our Research and Development Department is located in Neuchâtel, Switzerland.

THE POSITION The successful applicant will be appointed to assist in a technology assessment project in which biotechnology applications to tobacco will be evaluated. Experimental work will include development of PCR-based molecular fingerprinting techniques.

THE PERSON A holder of a Ph.D. degree in plant molecular biology or biochemistry, you have some 3-4 years of post-doctoral academic/industrial experience in plant genetic engineering, preferably on tobacco model systems. A strong understanding of plant biochemistry, physiology and genetics is highly desirable. Familiarity with scientific computer systems and interrogation/analysis of DNA and protein sequence database will be an asset.

Excellent communication skills and ability to work in interdisciplinary teams are required. Fluency in both written and oral English is a must. Working knowledge of French will be an asset.

If you feel that you match our profile and are interested in joining this dynamic team of professionals, please reply in the strictest confidence with full curriculum vitae.

Send your application to:



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REF. NO RD-07

Research Associate

- Molecular Pharmacology -

At Synaptic Pharmaceutical, our leadership in the search for novel therapeutic agents for the treatment of nervous system disorders puts you at the forefront of exciting target-based drug design initiatives — and your profession. We currently have a need for a visionary professional to join our multidisciplinary team, focusing on the discovery of novel G protein-coupled receptors expressed in the CNS.

Your success will demand a BS or MS degree, strengthened by 2+ years of academic or industrial experience in the area of receptor binding and/or second messenger assays.

In return for your insights and abilities, we offer a fully competitive salary and attractive benefits, including a 401(k) plan and tuition reimbursement. For prompt, confidential consideration, please forward your resume to: **HR Manager, Dept-223, Synaptic Pharmaceutical Corporation, 215 College Road, Paramus, NJ 07652. EOE M/F/D/V**



The World Health Organization

invites applications for two posts of SCIENTIST (posts of limited duration) with its Special Programme for Research and Training in Tropical Diseases (TDR) Product Research and Development (TDP) component. The objectives of the Special Programme (TDR) are: research and development (R&D) to obtain new and improved tools for control of major tropical diseases; strengthening R&D capabilities of disease-endemic countries. The objectives of the component are: discovery research, product development, registration and arrangement of manufacturing and distribution of new and improved drugs and vaccines for TDR's six diseases; R&D technology transfer to disease-endemic countries; and development of partnerships with the private (pharmaceutical) sector to expedite such R&D with additional resources.

First Post: To coordinate TDP's R&D in the filariases (onchocerciasis and lymphatic filariasis); manage Product Development Teams in the above areas; plan, prepare budgets and report progress in filariases R&D to the various technical and donor committees; assist in the organizational management of TDP, in the development of TDP's interactions with both public and private sectors, and in its R&D technology transfer programme, to disease-endemic countries.

Qualifications: Doctoral degree in medical or biological sciences. Overall knowledge of pharmaceutical R&D and particular experience in managing product development, including good practices. Broad knowledge of infectious diseases, including tropical diseases. Ability to elicit respect of and constructive cooperation from senior staff in academia, industry, health ministries, donor agencies, colleagues and subordinates. Extensive experience (10 years) in discovery and development of pharmaceutical products in an international environment. Experience in the pharmaceutical industry and specific knowledge in one or more of the filariases would be an asset.

Second Post: To coordinate all TDP's clinical trials, and ensure their adherence to international standards of Good Clinical, Good Manufacturing and Good Laboratory Practices, coordinate TDP's responses to regulatory authorities, manage some of TDP's development projects; provide expertise to disease-endemic countries on technology transfer of clinical trials; produce clinical reports for drug regulatory authorities; manage Product Development Teams; assist in the organizational management of TDP and the development of its interactions with the private sector.

Qualifications: Doctoral degree in medical or biological sciences. Overall knowledge of pharmaceutical product development, including good practices, and detailed understanding of clinical trials and their reporting to regulatory authorities. Ability to elicit respect of and constructive cooperation from senior staff in academia, industry, health ministries, donor agencies, and/or colleagues and subordinates. Extensive experience (10 years) in pharmaceutical development, especially in the design management interpretation and regulatory reporting of clinical trials. Experience in the pharmaceutical industry and specific knowledge of one or more of TDR's six diseases would be an asset.

Excellent knowledge of English or French; good working knowledge of the other language. Attractive package of salary, international allowances, social security and statutory entitlement is offered. Applications, including a detailed curriculum vitae with photograph, should reach the following office within three weeks of publication of this advertisement, quoting reference PRC/TDR/TDP and the position applied for: **Head, Professional Candidates (PRC/TDR/TDP), World Health Organization, 20 Avenue Appia CH-1211 Genève 27 (FAX 791 41 77)** Applications from women are encouraged.

FACULTY POSITIONS

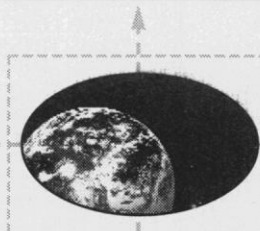
VIROLOGY/IMMUNOLOGY

University of Pittsburgh

The Department of Infectious Diseases and Microbiology of the Graduate School of Public Health, University of Pittsburgh, is seeking outstanding applicants for tenure track positions as Assistant/Associate Professors in the areas of the molecular biology and immunology of HIV/SIV, herpes viruses and hepatitis viruses. The Department is committed to continued development of a strong multidisciplinary program wherein molecular biology, immunology, and the epidemiology of viral disease are integrated with ongoing clinical, natural history, and vaccine studies. Candidates should have a Ph.D., M.D. or equivalent, and have sufficient experience to establish a funded independent research program which integrates basic virology and/or immunology with clinical medicine and public health. Salary and starting date are negotiable. Send curriculum vitae and names of three references to: **Charles R. Rinaldo, Jr., Ph.D., Chairman, IDM Search Committee, A416 Crabtree Hall, University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA 15261, Phone (412) 624-1637, FAX (412) 624-4953, Email address: rinaldo+@pitt.edu.** Applications for the Assistant Professor positions reference job numbers 009607/009608; for the Associate Professor positions, reference job number 009609/009610. To ensure full consideration of all applicants, applications will be reviewed until the positions are filled. *The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer.*

STUDY DIRECTOR RADIATION HEALTH EFFECTS

The National Research Council's Board on Radiation Effects Research seeks a Study Director to plan and execute studies of the somatic and genetic effects induced in humans exposed to ionizing radiation. Will serve as the primary staff officer for one or more committees of 10 to 15 expert volunteers. Applicants should have a Ph.D. or M.D., or equivalent experience in a field related to radiation biology, at least five to ten years of experience in conducting and managing sponsored research programs, should demonstrate ability to plan, organize, and conduct a complex research program involving multi-disciplinary and controversial issues closely linked to difficult risk-management decisions, and ability to direct and motivate work by both volunteer committee members and support staff. Applicants should also be skilled in communicating with sponsors and the general public in both written and oral presentations. Send curriculum vitae or professional biography and letter of interest to: **Board on Radiation Effects Research, NAS, 342 (ED-SC), National Research Council, 2101 Constitution Ave., NW, Washington, DC 20418. EOE**



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The Agricultural Sector of the Monsanto Life Sciences Company is a world leader in the discovery and development of agricultural products based on advanced chemistry and biotechnology. Our scientists play a key role in our company's success through participation in discovery research, product development and advanced product support.

Molecular Plant Virologist

The qualified candidate will participate in the engineering of virus-resistant crops, virus gene cloning, plant expression vector construction, molecular analysis of transgenic plants, and performance of growth chamber tests of transgenic plants for virus resistance. Strong expertise in recombinant DNA technology and a background in plant molecular biology are required. Previous experience in development of transgenic crops resistant to virus infection is a plus. Excellent interpersonal and communication skills are essential.

We require a PhD in Plant Pathology, Molecular Biology or a related field; and 2-4 years of relevant post-graduate experience; strong record of scientific accomplishment in molecular plant virology, experience assaying of crops for virus resistance; virus epidemiology and field experience a plus.

Interested candidates should send a resume including contact information for at least three references to: Ms. B. Robinson, Mail Zone: GC4C, Agricultural Sector, Monsanto Company, 700 Chesterfield Village Parkway North, St. Louis, MO 63198. Fax: 314/537-7015. Email: bjrobi1@monsanto.com

Monsanto

CHAIR DEPARTMENT OF PHARMACEUTICAL SCIENCES SCHOOL OF PHARMACY UNIVERSITY OF MARYLAND AT BALTIMORE

The University of Maryland at Baltimore (UMAB) School of Pharmacy invites applications and nominations of outstanding leaders and scholars in the pharmaceutical sciences for the position of Chair, Department of Pharmaceutical Sciences. The successful candidate will have excellent interpersonal skills, the ability to foster collaborative and interdisciplinary initiatives, and a commitment to continue the development of a diverse group of productive faculty into an outstanding department in both research and education. Although training and experience in academic pharmacy is desirable, it is not required. Candidates with research interests in related disciplines or experience in industry are also encouraged to apply.

The Department of Pharmaceutical Sciences was formed several years ago from the merger of three departments: biomedical chemistry, pharmaceuticals, and pharmacology. It now has 30 full-time faculty members and 75 graduate students. It has one of the most modern industrial and pharmaceutical technology research and manufacturing facilities in the country. We expect considerable expansion of the programs in the next few years with several additional faculty positions and increased departmental space already approved.

UMAB is the professional campus of The University of Maryland and consists of the Schools of Pharmacy, Medicine, Dentistry, Nursing, Law and Social Work. The University of Maryland Medical System, Baltimore VA Medical Center, and Medical Biotechnology Institute combine with the professional schools to make UMAB the fourth fastest growing research center in the country, with over one billion dollars of new building in the past decade. The School of Pharmacy has enjoyed an increase in its state budget and laboratory space over the past three years. These developments have contributed to the efficient implementation of the School's innovative all Pharm.D. professional degree program and significantly increased our emphasis on research and graduate education.

Direct nominations or applications with a letter of interest, curriculum vitae, and names, addresses, and telephone numbers of at least three references to: Dr. Anne N. Hirshfield, Chair, Pharmaceutical Sciences Department Chair Search Committee, School of Pharmacy, University of Maryland at Baltimore, 100 Penn St., Suite 205, Baltimore, Maryland 21201; (410) 706-4173. *The University of Maryland at Baltimore is an Equal Opportunity/Affirmative Action/ADA Employer. Minorities and women are encouraged to apply.*

Chairperson, Natural History and Epidemiology Coordinating Committee HEALTH SCIENTIST ADMINISTRATOR/ MEDICAL OFFICER, GS-14/15 National Institutes of Health • Office of AIDS Research

Serves as a senior advisor to the Director, Office of AIDS Research (OAR), on issues concerning Natural History and Epidemiology research on HIV infection and its sequelae; participates in the preparation of the National Institutes of Health (NIH) AIDS Natural History and Epidemiology budget; represents the Director, OAR in this area to NIH and Agency level staff, research institutions, academia, media, and the general public; examines proposed policy changes to the conduct of HIV/AIDS research and advises NIH management on the impact and possible interpretation by a diverse range of groups and organizations including health care providers and the government.

Facilitates and coordinates the efforts of the committee; identifies scientific opportunities; setting research priorities, and enhancing trans-NIH coordination and collaboration. Serves as an OAR ad hoc member of task forces or groups or chairs special purpose groups dealing with HIV/AIDS related research.

Candidates should have knowledge of natural history and epidemiology research of infectious agents, specifically related to HIV; skill in preparing organizational budgets; the ability to prepare verbal and written reports on complex scientific issues; skill in facilitating and coordinating committees.

This is a civil service position with a salary commensurate with experience. Please send a curriculum vitae, resume or an Optional Application for Federal Employment, OF-612 to the National Institutes of Health, OD/OE, Building 31, Room 1C27, 31 Center Drive MSC 2264, Bethesda, Maryland 20892-2264, Attn: Mr. Nelson Rodriguez, Announcement #OD-97-1005. For additional information please call Mr. Rodriguez at 301-496-2511. Full qualification requirements may be obtained by calling 301-402-4111. U.S. citizenship is required. APPLICATIONS MUST BE POSTMARKED BY JUNE 3, 1997. NIH is an Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS IN ATHEROSCLEROSIS AND VASCULAR BIOLOGY

Immediate positions open for **POSTDOCTORAL FELLOWS** within a new NIH-funded Atherosclerosis and Vascular Biology Training Center. This multidisciplinary program offers training in 1) Structural Biology: determining structure of biomolecules involved in lipid transport/metabolism by electron crystallography, multi-dimensional NMR, molecular modeling and dynamics; 2) Biochemistry: mechanisms of lipid/lipoprotein metabolism using surface chemistry, peptide synthesis/sequencing, spectroscopy and stable isotope methodology; 3) Cell and Molecular Biology: role of macrophage/endothelial cell/smooth muscle cell scavenger receptors and oxidized lipoproteins in atherosclerosis/angiogenesis using cell culture, transgenic animals and site-directed mutagenesis; mechanisms of SMC proliferation and arterial stenosis, blood flow/shear stress induction of genes, role of adhesion molecules in atherosclerosis/thrombosis; gene therapy for cardiovascular disease.

Additional information: <http://athero.med.bcm.tmc.edu/cgi-bin/athero.pl>. Please send curriculum vitae, statement of research interests, and names of references to: Joel D. Morrisett, Ph.D., Atherosclerosis Section, Department of Medicine, The Methodist Hospital MS A601, Baylor College of Medicine, Houston, TX 77030; Email: morriset@bcm.tmc.edu.

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

THE JACOB BLAUSTEIN INTERNATIONAL CENTER FOR DESERT STUDIES BLAUSTEIN POSTDOCTORAL FELLOWSHIP

A two-year **FELLOWSHIP**, to be taken up on or close to October 1, 1997, is available for basic or applied research in physical, life or social sciences related to arid zones. Deadline for application is July 1, 1997. A decision will be announced by July 25, 1997. Please send curriculum vitae, letter describing research interests, and have three letters of reference forwarded to: Prof. Joseph Gaie, The Jacob Blaustein Institute for Desert Research, Ben Gurion University of the Negev, Sede Boker Campus, 84990, Israel; Telephone: 972 (7) 6596717; FAX: 972 (7) 6596718; Email: inter@bgumail.bgu.ac.il.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

Immunology/Virology/Multiple Sclerosis **FELLOW-SHIP**: The MS Center at The New York Hospital-Cornell University Medical College is seeking qualified scientists to conduct basic research in multiple sclerosis. Potential for junior faculty position and lab directorship. Accepting applicants with Ph.D. and/or M.D. degree and strong training in cellular and molecular biology, with interests in neuroscience, immunology, or virology. Contact: Brian R. Apatoeff, M.D., Ph.D., Department of Neurology and Neuroscience. Telephone: 212-746-4504; FAX: 212-746-8742; Email: brapato@mail.med.cornell.edu. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available for an NIH-funded program to study vitamin D hormone receptor structure/function, DNA binding and molecular action on gene transcription. Applicants should have a strong background in molecular biology and/or biochemistry. Review of applications will begin May 16 and continue until position is filled. Send curriculum vitae and names of three references to: Mark R. Haussler, Ph.D. and Jui-Cheng Hsieh, Ph.D., Department of Biochemistry, College of Medicine, The University of Arizona—Home of the NCAA Basketball Champions, 1501 North Campbell Avenue, Tucson, AZ 85724. Equal Opportunity/Affirmative Action Employer, Minorities/Women/Disabled/Veterans.

Protein Chemistry **POSTDOCTORAL POSITIONS**. NIH-funded heme protein projects require biochemists with experience in PCR, mutagenesis, expression and purification. Opportunity to learn biophysical characterization, including NMR and kinetics. For more information contact: Jim Satterlee, Chemistry Department, Washington State University, Pullman, WA 99164-4630. To apply send curriculum vitae, publication list and references. Email: hemeteam@cosy.chem.wsu.edu.

POSITIONS OPEN

TWO POSTDOCTORAL FELLOWSHIP POSITIONS IN IMMUNOLOGY AND INFECTIOUS DISEASES

Two positions available in the Department of Immunology and Infectious Diseases at the Research Institute, Palo Alto Medical Foundation with a co-appointment at Stanford University School of Medicine.

Position one is for an M.D. to investigate mechanisms of host resistance against opportunistic pathogens. Project includes studies of the role of cellular immunity, cytokines, and genetic regulation of the immune response. Appropriate prior experience in immunology/molecular biology/cell biology preferred.

Position two is for an M.D. to study the immune response to intracellular pathogens, especially *Toxoplasma gondii*, and to develop new, innovative, molecular approaches for diagnosis of infectious diseases. Project incorporates studies of the role of different stages of the organisms in immune response of humans and animals. Prior experience in molecular biology and/or immunology required.

Send curriculum vitae and names and addresses of three references to: Trisha Mitchell, Research Institute, Palo Alto Medical Foundation, 860 Bryant Street, Palo Alto, CA 94301. FAX: 415-329-9853.

Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS available immediately to participate in several collaborative research programs: (1) *in vitro* predictions of metabolism-related adverse drug effects (Dr. E.L. LeCluyse); (2) *in vitro-in vivo* correlations of drug disposition (Dr. D.R. Thakker); (3) mechanisms/protein regulation of hepatobiliary xenobiotic transport (Dr. K.L.R. Brouwer). Preferred expertise: *in vitro* enzyme assays, cell/molecular biology, cell culture techniques, bioanalytical techniques, kinetics. Send curriculum vitae and three references to: Division of Pharmaceutics, School of Pharmacy Beard Hall, CB# 7360, The University of North Carolina, Chapel Hill, NC 27599; FAX: 919-966-0197.

The University of North Carolina at Chapel Hill is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

POSTDOCTORAL POSITION available to study the MSP-based mechanism of amoeboid cell motility in nematode sperm (see *Cell* 84: 105-114 and accompanying mini-review). NIH-funded project provides an opportunity to use multiple approaches, centered on reconstitution of motility *in vitro*, to identify the components of the locomotory apparatus and determine how they produce movement. Experience in molecular biology, biochemistry, or biophysics of motile systems desirable. Send curriculum vitae and names of three references to: Thomas M. Roberts, Department of Biological Science, Florida State University, Tallahassee, FL 32306. Email: roberts@bio.fsu.edu. Florida State University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study cellular aspects of mucosal immunity. Experience in one or more of the following areas required: protein isolation and characterization, receptor-ligand interactions, adhesion molecule biochemistry or lymphocyte trafficking. Send curriculum vitae, brief statement of research background and names of three references to: Dr. Paul C. Montgomery, Professor and Chair, Department of Immunology and Microbiology, Wayne State University Medical School, 540 East Canfield Avenue, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION to study integrin signaling in cardiac disease and development using cell culture and murine models. Recent Ph.D. with molecular and cell biology experience required. Signal transduction, or developmental biology training preferred. Send curriculum vitae and names of three references to: Dr. Robert Ross, UCLA School of Medicine, Department of Physiology, 10833 Le Conte Avenue, Los Angeles, CA 90095-1751. FAX: 310-206-5661. Email: rross@physiology.medsch.ucla.edu.

POSTDOCTORAL POSITION available immediately involving single unit recording from prefrontal and parietal cortices of behaving primates. Prior experience in electrophysiological techniques is required. Please send curriculum vitae, letter of interest, names and telephone numbers of three references to: A. B. Sereno, Neuroscience Center, Rutgers University, 197 University Avenue, Newark, NJ 07102. FAX: 201-648-1272; Email: sereno@andromeda.rutgers.edu.

POSITIONS OPEN

THE REGULATION OF CELLULAR PROLIFERATION AND DIFFERENTIATION

POSTDOCTORAL and **RESEARCH ASSOCIATE** positions are available to investigate the regulation of cyclin dependent kinase activities and how these activities alter cellular proliferation and differentiation. Highly motivated individuals are sought to investigate the molecular mechanisms that control the cell cycle and bring about growth arrest during differentiation. Outstanding research environment and competitive compensation. Initial appointments can be made for two years. Send curriculum vitae and the names of three references to:

W. J. Pledger, Ph.D.

H. Lee Moffitt Cancer Center and Research Institute
12902 Magnolia Drive
Tampa, FL 33612

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POSTDOCTORAL OR RESEARCH ASSOCIATES

Two non-career-service positions are available starting approximately July 1, 1997, to study the molecular population genetics of Atlantic bay scallops for both theoretical and practical applications in a three-year research program. Experience in DNA RFLP analysis and in DNA sequencing or DNA fingerprinting desired; experience with molluscan DNA preferred. M.S. or Ph.D. desired. Starting salary range: \$20,900-\$28,500. Send curriculum vitae, three references, and most recent university transcripts to: Dr. Theresa M. Bert, Ph.D., Florida Marine Research Institute, 100 Eighth Avenue Southeast, St. Petersburg, Florida 33701 by June 1, 1997. FAX: 813-823-0166. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW

The Jackson Foundation is in need of a **POSTDOCTORAL FELLOW** in the molecular virology position located in the laboratory of Dr. Christopher C. Broder at the Uniformed Services University of Health Sciences. Current studies focus on virus glycoprotein-receptor interactions (HIV/SIV) and membrane fusion processes. Reviewed in *Pathobiology* 64:171, 1996. Experience in molecular biology and biochemistry required. Send cover letter, résumé and telephone numbers of three references to: HJF, HR Department, Attn: PL2970081, 1401 Rockville Pike, Suite 600, Rockville, MD 20852. Email: hr@mail.hjf.org (send in unencoded ASCII text); FAX: 301-738-8725. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for studies of plant evolutionary genetics. The successful applicant will be expected to study population genetics and systematics of ryegrass (*Lolium* spp.) and its wild relatives in the *Lolium-Festuca* complex, using microsatellite markers. The position requires background in DNA techniques (cloning, sequencing, PCR, colony screens) with experience in either population genetics or phylogenetics. One-year appointment with funding available for a second year. Send curriculum vitae with names of three references to: Brandon S. Gaut, Department of Plant Sciences, Rutgers University, New Brunswick, NJ 08903. Materials can also be sent to: Email: gaut@ahab.rutgers.edu.

POSTDOCTORAL POSITION now available in molecular physiology laboratory investigating renal tubular transport mechanisms. The work involves microdissection and perfusion of nephron segments and subsequent analysis using microchemical assays and cell/molecular biological techniques. Collegial, energetic and productive environment. Possibility of advancement to faculty. Please send curriculum vitae and three references to: George J. Schwartz, M.D., University of Rochester School of Medicine, Box 777, 601 Elmwood Avenue, Rochester, NY 14642.

POSTDOCTORAL POSITIONS are available to study synaptic signaling. Research projects focus on cellular mechanisms for synaptic plasticity and neurodegeneration mediated by nitric oxide (NO) and glutamate receptors in brain. (*Cell* 82: 743-752, 1995; *Cell* 84: 757-767, 1996; *Neuron* 17: 759-767, 1996). Please send curriculum vitae and the names of references to: David S. Bredt, M.D., Ph.D., Department of Physiology, UCSF, 513 Parnassus Avenue, San Francisco, CA 94143-0444. FAX: 415-476-4929; Email: bredt@itsa.ucsf.edu.

THE UNIVERSITY OF ADELAIDE

South Australia

DIRECTOR

The Cooperative Research Centre (CRC)
for Molecular Plant Breeding

The CRC for Molecular Plant Breeding will be established in July 1997 with funding for seven years. It will develop, test and implement effective strategies for cereal and pasture grass breeding based on the new technologies of molecular biology. These strategies will provide the research base, tools, strategies and training for the next generation of plant breeders. The Research organisations involved in the CRC are spread across Australia with a major link to CIMMYT in Mexico.

Key attributes being sought for the Director include: demonstrated research management skills, international standing, scientific credibility, preferably in molecular biology or plant breeding, interpersonal and communication skills and an understanding of the rural industries.

The appointment will be for the full term of the CRC (until June 2004). Remuneration will be in keeping with the responsibilities of the position. Further information may be obtained from the Interim Director, Dr Peter Langridge (tel. [61 8] 8303 7368; fax: [61 8] 8303 7102, email: plangridge@waite.adelaide.edu.au).

Applications close: 11 July 1997.

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Leicester
UniversityCENTRE FOR MECHANISMS
OF HUMAN TOXICITYResearch Fellowship (5 years)
Developmental Cell Death in Neurons

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Candidates will work at the clinical/basic science interface to investigate molecular mechanisms of cell death accompanying human neurodegenerative disease. It will be possible to develop an independent programme to integrate local strengths in apoptosis, neurotoxicology and ion channel molecular biology. Candidates should have several years postdoctoral experience, preferably in the areas of protein biochemistry, developmental neurobiology or ion channel biology. (Ref: R7039/SC). Closing date: 23 May 1997.

Further particulars and an application form are available from the Personnel & Planning Office (Research Appointments), University of Leicester, University Road, Leicester LE1 7RH. Tel: (0116) 223 1341.

Towards equal opportunities

ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

The Swiss Federal Institute
of Technology Lausanne (EPFL)
has four openings for a
"Maître D'Enseignement Et De Recherche"
(MER) (Senior Lecturer):

Operations Research at the Mathematics
Department

The activities of the new collaborator will involve all aspects of Operations Research (modelling, simulation and optimization). He/she will be assigned to one of the Chairs of the Operations Research Group of the Mathematics Department.

Nanophysics at the Physics Department

The new collaborator will lead a research team on scanning tunnelling microscopy in the Institute of Experimental Physics. The research activity of the candidate will primarily focus on the development of scanning tunnelling spectroscopy into a chemical sensitive probe with a high spatial and temporal resolution. The candidate should have developed a high level of research in experimental condensed matter physics, chemical physics or a related field. An outstanding research record and a commitment to excellence in teaching are advantages. Extensive research experience in the field of surface science and scanning tunnelling microscopy is required. Experience with nanostructured surfaces is desirable.

Chemical Reaction Engineering at the Chemistry
Department

The new collaborator is expected to develop an original research program at the leading international level in chemical reaction engineering. The desired area of research concerns heterogeneous catalysis in connection with the design of microreactor systems. He/she must have proof of his/her ability to develop and lead an outstanding research program. Industrial experience is an advantage.

Physical Chemistry at the Chemistry Department

The new collaborator is expected to develop an original research program at a high level. He/she will propose and develop activities in the domain of "ultrafast spectroscopy and molecular reaction dynamics".

For the four positions: the activities will take place within the concerned Departments and will also involve other units of the EPFL as well as other Swiss and international academic institutions and manufacturers. An aptitude for teaching to students of graduate and undergraduate level and for conducting original and high level research projects is essential. The new collaborators will also be called on to supervise and guide students on semester projects, on engineering degrees and Ph.D. degree work. They should possess a confirmed skill in leading projects. Applications are encouraged from people who fulfill the requirements of the Swiss program for ensuring the continuity of competent university faculty. Deadline for applications: August 15, 1997. Starting date: as mutually convenient.

Applications from women are particularly welcome. For further information, please contact by writing: **Présidence de l'Ecole polytechnique fédérale de Lausanne, CE-Ecublens, CH 1015 Lausanne, Switzerland**

POSITIONS OPEN

POSTDOCTORAL RESEARCH STAFF MEMBER

Our Center for Accelerator Mass Spectrometry (CAMS) is currently seeking a **POSTDOCTORAL RESEARCH STAFF MEMBER** to work as part of an interdisciplinary team of physicists, chemists, and biologists. In this research position, you will work as part of a team to develop quantitative elemental analysis of biological tissues. These techniques will be used in studies of elemental kinetics, structural biology, toxicology or pharmacology by staff at LLNL and collaborators in the University of California system and other institutions. Duties include development/modification of techniques for preparation of biological tissues for quantitative elemental microanalysis, operation of the LLNL microprobes to analyze prepared biological samples, X-ray data reduction and analysis, and planning/designing, and executing independent and collaborative research projects and publication of results in peer-reviewed literature. Requires a recent Ph.D. in chemistry, biochemistry, toxicology, pharmacology or related field. Experience in trace element analysis and analytical microscopy is desired. LLNL offers a challenging work environment and a competitive salary/benefits package. Qualified individuals are invited to send their résumé to: **Lawrence Livermore National Laboratory, Attn: Mary Anne Holman, L-725, P.O. Box 5510, R-4249, Dept. AJSC527MH, Livermore, CA 94551-5510. LLNL is an Equal Opportunity Employer.**

LAWRENCE LIVERMORE NATIONAL LABORATORY

The Cognitive Neurology and Alzheimer's Disease Center at Northwestern University Medical School in Chicago, Illinois, is seeking a **POSTDOCTORAL RESEARCH FELLOW** to work with a multidisciplinary research team composed of neuropsychologists, neurologists, and cognitive neuroscientists on studies of visual attention in subjects with Alzheimer's disease and other neurological disorders. Applicants must have a Ph.D. in psychology (cognitive neuroscience or related field preferred). Application should include a letter summarizing career goals, curriculum vitae, three letters of recommendation, and representative publications. Send materials to: **Sandra Weintraub, Ph.D., Director of Neuropsychology, Cognitive Neurology and Alzheimer's Disease Center, Northwestern University Medical School, 320 East Superior Street, Searle 11-467, Chicago, IL 60611. Telephone: 312-908-9023; Email: sweintra@nwu.edu.**

POSTDOCTORAL POSITIONS RNA/DNA/STRUCTURE/PROTEIN-NUCLEIC ACID INTERACTIONS

POSTDOCTORAL POSITIONS for highly motivated individuals to investigate (i) tertiary structure and stability of nucleic acids, (ii) protein-nucleic acid interactions, (iii) sequence/tertiary structure evolution in RNA. Projects may involve both experimental and computational components, and can range from molecular genetic to physical/structural, depending on the interests and backgrounds of applicants. Please send curriculum vitae and three letters of support to: **Paul Hagerman, Department of Biochemistry and Molecular Genetics, B-121, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262. Email: paul.hagerman@uchsc.edu.**

LABORATORY OF BIOCHEMISTRY THRESSA STADTMAN, PH.D.

A **POSTDOCTORAL POSITION** is available in the Laboratory of Biochemistry of the NHLBI in selenium biochemistry research group to investigate bacterial and eukaryotic selenoenzymes. Training and experience in molecular biology, microbiology, gene expression and enzyme characterization essential. Applicants must have a Ph.D. and less than five years of postdoctoral experience. U.S. citizenship or permanent residency required. Submit curriculum vitae and references to: **Thressa Stadtmann, Ph.D., Laboratory of Biochemistry, 3 Center Drive, MSC 0320, Building 3, Room 108, Bethesda, MD 20892-0320.**

POSTDOCTORAL POSITION at Emory University is available to study the molecular basis of leukocyte interactions with polarized epithelial cells. Background in molecular biology necessary but no previous postdoctoral experience required (site directed mutagenesis preferred). U.S. citizenship or green card required. Send résumé to: **Dr. Charles A. Parkos, c/o Carol Mahoney, Department of Pathology, Room H185, Emory University Hospital, Atlanta, GA 30322. Email: cparkos@bustoff.bwh.harvard.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION to study structure-activity relationships of free radicals on cellular toxicity is available immediately. Training in biochemistry/cell culture techniques is required. Send résumé, letter of recommendation, and the name and address of one other reference to: **Professor C. Selassie, Chemistry Department, Pomona College, 645 North College Avenue, Claremont, CA 91711-6338. Pomona College is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to study protein-protein interactions involved in the assembly and targeting of neuronal voltage-sensitive K⁺ channels. The project involves using biochemical, cell biological, molecular and/or genetic approaches in the characterization of 1) interactions between subunits during K⁺ channel assembly and biosynthetic processing, and 2) interactions of K⁺ channels with cellular proteins important in determining localization. For additional information visit our Web page at: <http://129.49.19.42/biochem/trimmer/home.html>. Our laboratory is part of a strong and highly interactive interdepartmental molecular neurobiology group within the Institute for Cell and Developmental Biology at Stony Brook. Applicants must have a strong research background as evidenced by peer-reviewed publications. Send curriculum vitae and names of three references to: **Dr. James S. Trimmer, Dept. of Biochemistry and Cell Biology, SUNY, Stony Brook, NY 11794-5215. The State University of New York at Stony Brook is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS are available to study B cell development and activation from the mature B cell to memory or plasma cell, especially as it relates to human autoimmune diseases. Projects include: 1) identification of genes expressed in B cell development and in disease (such as systemic lupus erythematosus) and 2) analysis of newly isolated interleukin-4 induced genes (e.g., Fig 1 and E4BP4). Candidates should have a Ph.D. and/or M.D. with a background in immunology, cell biology, or biochemistry. Skills in molecular biology (such as PCR, cDNA cloning, and Northern blot analysis) are desired. Please send cover letter, curriculum vitae, and three references to: **Charles C. Chu, Ph.D., Department of Medicine, North Shore University Hospital/NYU School of Medicine, 350 Community Drive, Manhasset, NY 11030. FAX: 516-562-1683; Email: cchu@nshs.edu. North Shore University Hospital/NYU School of Medicine is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION in enzyme structure with research directed toward substrate specificity and drug design is available immediately at Indiana University School of Medicine. Current projects in the laboratory include alcohol and aldehyde dehydrogenases, esterases involved in drug metabolism, and protein kinases. Individuals with extensive experience in enzyme structure-function analysis or with experience in X-ray crystallographic methods are encouraged to apply. Send curriculum vitae and the names of three references to: **Dr. Thomas D. Hurley, Department of Biochemistry and Molecular Biology, Indiana University School of Medicine, 635 Barnhill Drive, Indianapolis, IN 46202-5122. Email: hurley@biochem4.iupui.edu (<http://www.biochemistry.iupui.edu/faculty/Hurley>).**

Indiana University is an Equal Opportunity/Affirmative Action Employer.

A **POSTDOCTORAL POSITION** is available immediately to study the molecular recognition of T-cell receptors and its MHC/peptide ligand through a recently funded NIH grant at Harvard Medical School and Dana-Farber Cancer Institute. A strong background in molecular biology and cell biology is preferred. Please send a curriculum vitae, publications, and list of three references to: **Dr. Hsiu-Ching Chang, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. FAX: 617-632-3351; Email: hsiu-ching_chang@dfci.harvard.edu.**

POSTDOCTORAL POSITION available immediately in the Marlene and Stewart Greenebaum Cancer Center at University of Maryland at Baltimore to study retinoid modulation of gene expression. Experience in tissue culture, molecular biological techniques required. Send curriculum vitae, statement of research accomplishments and names of three references to: **Dr. Joseph A. Fontana, Bressler Research Building, Room 9-031, 655 West Baltimore Street, Baltimore, MD 21201.**

POSITIONS OPEN

SCHOOL OF PUBLIC HEALTH UNIVERSITY OF CALIFORNIA, BERKELEY

POSTDOCTORAL RESEARCH appointments are occasionally available with individual faculty members in the School of Public Health of the University of California at Berkeley. Appointments are normally made for one year, with the possibility of renewal for a second year. Highly qualified persons may apply for positions to be assumed at the time of, or shortly after, the completion of doctoral studies. A list of current Berkeley School of Public Health faculty and their areas of research interests is available on the World Wide Web. To view this list, access the School of Public Health homepage at <http://garnet.berkeley.edu/~sph>; refer to the Directory and then to Faculty Profiles for a listing of the School of Public Health faculty. Arrangements should be made for one confidential letter of reference to be sent by the person best able to judge the applicant's research achievements and potential. Applications should include a résumé, a brief statement of research experience, interests and goals, and the names and addresses of two additional references. The application should be sent directly to the faculty member with whom the applicant prefers to be associated at the following address:

School of Public Health
University of California
c/o 140 Warren Hall
Berkeley, CA 94720

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POSTDOCTORAL POSITIONS DEPARTMENT OF BIOCHEMISTRY

Mount Sinai School of Medicine has several positions available immediately to study various aspects of bioenergetics and gene expression in *bacillus subtilis* and alkaliphilic *bacillus* species. Research topics include structure/function studies of membrane transport proteins, tetracycline resistance and mRNA processing.

Interested individuals are encouraged to forward curriculum vitae and the names and addresses of three references, to: **Dr. Terry A. Krulwich, Department of Biochemistry, Mount Sinai School of Medicine, Box 1020, One Gustave L. Levy Place, New York, NY 10029-6574. We foster diversity in the workplace. An Equal Opportunity Employer.**

MOLECULAR BIOLOGY, ENZYMOLOGY AND CELL BIOLOGY SEYMOUR KAUFMAN, PH.D.

Current research includes studies on the structure and regulation of the tetrahydrobiopterin-dependent aromatic amino acid hydroxylases, nitric oxide synthase, and on the role of tetrahydrobiopterin in regulating neurotransmitter release and gene transcription. Applicants should have less than five years of postdoctoral experience and a strong background in molecular and cell biology; experience in enzymology is also desirable. Position available June 2, 1997. **Laboratory of Neurochemistry, NIMH, Building 36, Room 3D30, 36 Convent Drive. MSC 4096, Bethesda, MD 20892-4096.**

POSTDOCTORAL POSITION available to study the interaction of the Lyme disease agent, *Borrelia burgdorferi*, with mammalian cell integrins. Ph.D. and an interest in microbial-host interaction required; must be a U.S. citizen or permanent resident. Send curriculum vitae, summary of research experience, and three reference letters to: **Jenifer Coburn, Ph.D., Division of Rheumatology, New England Medical Center Box 406, 750 Washington Street, Boston, MA 02111. Equal Opportunity Employer.**

POSTDOCTORAL POSITION Perlmutter Laboratory/Children's Hospital Harvard Medical School

Several positions are available immediately to study G-protein coupled receptors in host defense and inflammation (*Science* 273, September 1996, *Nature* 383, 5: September 1996, *Cell* 85, June 28, 1996). Particular interests involve the role of chemokines and their receptors in viral pathogenesis, including herpesvirus and HIV. Position will be limited to U.S. citizens or permanent residents, although exceptional candidates with independent funding will be considered. Please submit curriculum vitae and names of three individuals who can be contacted to: **Dr. Craig Gerard, Children's Hospital, 320 Longwood Avenue, Boston, MA 02115. Equal Opportunity Employer.**

POSITIONS OPEN

AUDITORY NEUROSCIENCE POSTDOCTORAL POSITION

Structure/function research on synaptic organization, membrane properties, ion channels, and neural connectivity involved in sensory information processing. Experimental methods include systems and brain slice physiology; infrared, confocal, low-light video, and electron microscopy; 3D reconstruction; and immunocytochemistry. Experience with whole cell recording is preferred. Please send curriculum vitae, research interests, and names of three references to: **Douglas Oliver, Ph.D.**, Department of Anatomy, University of Connecticut Health Center, Farmington, CT 06030-3405.

POSTDOCTORAL POSITION: Available immediately for studies on the mechanisms of gene expression during adhesion synthesis in *Prevotella*. Ph.D. and proficiency in molecular biology required. Anaerobic culture experience a plus. Send curriculum vitae and three letters of reference to: **Dr. Jean Manch Citron**, Department of Oral Biology, University of Missouri, Kansas City, MO 64108. Email: jcitron@cctr.umkc.edu; FAX: 816-235-5524. The University of Missouri is an Equal Opportunity Employer.

MEETINGS

THERAPEUTIC ANTIBODY TECHNOLOGY
97, September 21-24, 1997; Holiday Inn-Union Square, San Francisco; Keynote: **R. Lerner**, Scripps; Speakers: **C. Barbas**, Scripps; **C. Borrebaeck**, Sweden; **P. Colman**, Australia; **B. Dallaire**, IDEC; **Z. Eshhar**, Israel; **N. Greenspan**, Case Western; **A. Griffiths**, Cambridge, UK; **R. Houghten**, Torrey Pines; **H. Hoogenboom**, Netherlands; **P. Hudson**, CSIRO; **A. Jakobvits**, AbGenix; **K. Johnson**, CAT; **R. Junghans**, Boston; **T. Logtenberg**, Netherlands; **W. Marasco**, Harvard; **R. Mariuzza**, Maryland; **J. Marks**, UCSF; **S. Morrison**, UCLA; **I. Pastan**, NIH; **A. Pluckthun**, Zurich; **M. Pfreudschuh**, Germany; **C. Queen**, Protein Design; **J. Scott**, Canada; **T. Smith**, Indiana; **W. Stemmer**, Maxygen; **I. Tomlinson**, Cambridge, UK; **A. Williamson**, Scripps; **I. Wilson**, Scripps. Abstracts due August 31, 1997. Organizers: **J. Larrick**, **D. Burton**. Sponsor: Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043. Telephone: 415-694-4996; FAX: 415-694-7717; Email: paimm@netgate.net.

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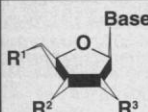
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¹Nishi, T., et al, "High Efficiency *In Vivo* Gene Transfer Using Intraarterial Plasmid DNA Injection Following *In Vivo* Electroporation", *CANCER RESEARCH*, 56, 1050-55 (1996)

²Fakhrai, H., et al, "Eradication of established intracranial rat gliomas by transforming growth factor β antisense gene therapy" *Proc. Natl Acad. Sci., U.S.A.* Vol. 93, pp 2909-2914 (April 1996)



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