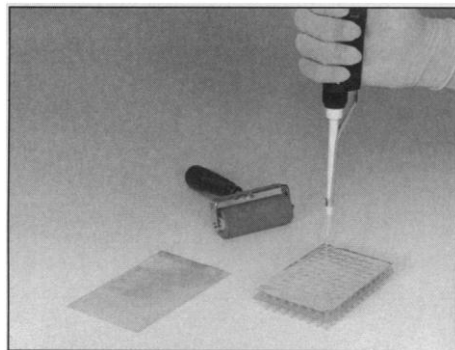


PRODUCTS & MATERIALS

Plate Sealers

CycleSeal and CycleFoil are new products for sealing polymerase chain reaction (PCR) plates. The CycleSeal Plate Sealer is for sealing PCR plates for thermal cycling. It is a single precut, siliconlike sheet with a removable plastic backing. The heat and pressure from the thermal cycler lid molds the CycleSeal around the well openings, providing an effective evaporative seal with no well-to-well contamination. It can be used on any



96-well thermal cycler with a heated lid. CycleFoil Plate Sealer and Roller are for sealing PCR products for storage in 96-well arrays. The adhesive-backed aluminum foil, sealed with a firm roll, forms an evaporative barrier. Individual samples can be recovered by piercing the thin foil with a pipette tip while leaving the remaining wells sealed and uncontaminated. **Robbins Scientific Corp. Circle 139.**

Synthesis Kits for cDNA Libraries

The cDNA synthesis kits have been designed for fast, efficient construction of cDNA libraries. The synthesis kits make use of powerful Lambda ZAP vectors, enabling researchers to use in vivo excision to convert lambda clones or libraries into single- or double-stranded libraries. The kits also make

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

use of *Pfu* DNA polymerase instead of Klenow DNA polymerase for end polishing, which results in higher quality, more efficiently prepared cDNA libraries. **Stratagene. Circle 140.**

Liquid Enzyme Substrate Systems

DAB (3,3'-diaminobenzidine tetrahydrochloride) Liquid Enzyme Substrate Systems are designed for immunohistological and immunoblotting procedures. The systems contain premeasured and premixed volumes of reagents for the visual detection of enzyme-linked antibodies in immunoassays. Just add the liquid chromagen to the liquid buffer, mix, and use. The weighing, waiting, filtering, and waste often associated with traditional preparation techniques are elimi-

nated. The systems are packaged in quantities convenient for staining individual slides, batches of slides, or immunoblotting. A dropper system is available for immunohistological staining. **Sigma Chemical Co. Circle 141.**

Stabilized Lysozyme

Ready-Lyse Stabilized Lysozyme Solution offers increased recovery of nucleic acids and proteins, including recombinant proteins, from bacterial lysis. Compared with egg-white lysozyme, Ready-Lyse Lysozyme results in higher yields of DNA, RNA, or proteins, increased reproducibility in lysis, and greater convenience. It is a highly purified homogeneous protein supplied as a ready-to-use solution stable at -20°C . **Epicentre Technologies. Circle 142.**

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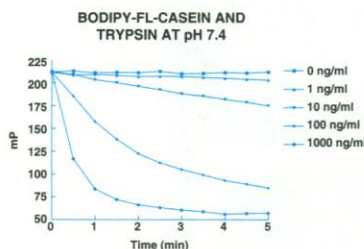
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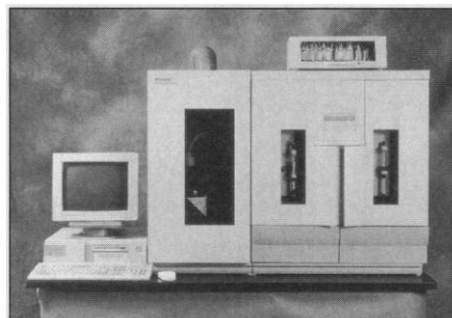
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Peptide Synthesis System

The Pioneer Peptide Synthesis System is designed for a variety of synthesis processes. The system is capable of dual, independent, and simultaneous column synthesis and can be upgraded with a multiple peptide option



for the simultaneous synthesis of up to 32 peptides. Other key features include the capability of incorporating up to three different chemistries into a single synthesis, continuous flow synthesis, low reagent consumption, and fast cycle times. **PerSeptive Biosystems. Circle 145.**

Literature

New Star for the Life Sciences is a brochure on a dual-cell, dual-source Fourier transform mass spectrometer. **Finnigan FT/MS. Circle 146.**

The Antigen Retrieval Reference Chart lists close to 300 commercially available antibodies along with the recommended pretreat-

ment of formalin-fixed tissues for use of these antibodies in immunohistochemical staining. **BioGenex. Circle 147.**

Microfiltration and Laboratory Poretics Products Catalog is a 171-page publication that features polycarbonate and polyester screen membrane filters; membrane filters of pure silver, silica-free polyvinyl chloride, nylon, mixed cellulose esters, polytetrafluoroethylene, nitrocellulose, and polypropylene; ceramic and glass fiber filters; filter holders and apparatus; pleated filter cartridges and housings; laboratory scale water purification systems and equipment; and Teflon fluid handling apparatus. **Osmonics. Circle 148.**

Spectrophotometer Cells lists more than 300 different types of cells. Most cells are available in a choice of optical glass, ultraviolet quartz, or infrared quartz. **NSG Precision Cells. Circle 149.**

1996 Dako Catalog features a wide variety of monoclonal and polyclonal antibodies targeted against apoptotic markers, cell cycle proteins, multidrug resistance markers, and cell adhesion molecules, as well as a comprehensive listing of conjugated and unconjugated secondary antibodies. **Dako Corp. Circle 150.**

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Carcinoma Cell Enrichment

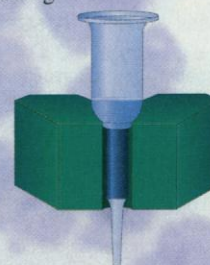
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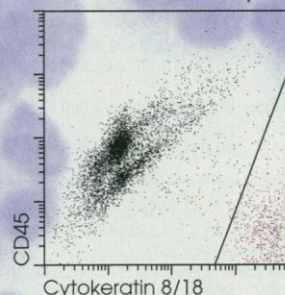
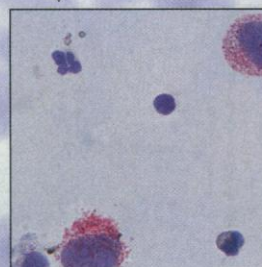
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DIRECTOR, AFRICA AND MADAGASCAR BIODIVERSITY SUPPORT PROGRAM

The Biodiversity Support Program (BSP), a consortium of World Wildlife Fund, The Nature Conservancy, and the World Resources Institute and funded by the U.S. Agency for International Development (USAID), seeks a **DIRECTOR** to plan, direct, and oversee all activities of the BSP Africa and Madagascar Program.

The Director will be responsible for strategic and long-term planning; project development, implementation, administration, and evaluation; fund raising, budget allocation; and hiring and supervision of staff. Requires a Ph.D. in biological sciences, natural resources management, social sciences, or related field; Master's degree with equivalent work experience may substitute. Ten years of experience in biological conservation, natural resources management, international development, or related field required. Demonstrated success in developing, directing, and managing complex conservation projects; designing research; and analyzing project results with extensive knowledge and experience in Africa. Two years of experience living in a developing country required. Diplomatic and cultural skills and the ability to work with a broad range of staff and international donors essential. Strong leadership, management, and supervisory skills and excellent oral and written communication skills in both English and French required. Experience with USAID preferred.

Competitive salary and benefits appropriate to the U.S. non-profit sector will be provided. Applicants should forward cover letter and résumé by mail to: **World Wildlife Fund, Human Resources, Department 545F, 1250 24th Street NW, Washington, DC 20037.** No fax or telephone inquiries please. Closing date for receipt of résumé and cover letter: September 16, 1996. *Affirmative Action/Equal Opportunity Employer.*

STANFORD UNIVERSITY

The Department of Pathology seeks an outstanding scientist for tenure-track appointment as **ASSISTANT or ASSOCIATE PROFESSOR**. The successful candidate is expected to develop a high quality, independent research program in an area of molecular and cellular mechanisms of disease. Of particular interest are candidates focusing on basic research related to disease processes. Applicants with Ph.D., M.D., or combined degrees will be considered. There are also possibilities for qualified applicants to participate in clinical activities. Applicants should submit a curriculum vitae, a brief description of research accomplishments, and a concise statement of plans for future research. These, with the names of three references, should be sent to: **Klaus Bensch, M.D., Professor and Chairman, Department of Pathology, Stanford University School of Medicine, Stanford, CA 94305.** *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

ASSISTANT PRODUCTION MANAGER

Integrated DNA Technologies, Inc. is seeking a qualified chemist for the position of **ASSISTANT PRODUCTION MANAGER** in its Specialty Synthesis Department. A B.S. or M.S. in chemistry, biochemistry, or related field is required with two or more years of experience in the area of oligonucleotide synthesis.

Integrated DNA Technologies, Inc. (IDT) offers a competitive compensation and benefit package and relocation assistance. IDT is located in an attractive community in close proximity to a major university and medical school complex. Please send a résumé and description of research/synthesis experience to:

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Integrated DNA Technologies, Inc. is an Equal Opportunity Employer.

California Institute of Technology invites applications for a tenure-track position as **ASSISTANT PROFESSOR** of Biochemistry, with an emphasis on, but not restricted to, the biochemistry, structure, and dynamics of macromolecular assemblies. The initial appointment will be for four years. Outstanding individuals with a Ph.D. and a strong commitment to research and teaching excellence are encouraged to apply. Submit by November 15, 1996, curriculum vitae, publication list, a description of proposed research, and three letters of recommendation to: **Professor J. H. Richards, Biochemistry Search Committee, 147-75 CH, California Institute of Technology, Pasadena, CA 91125.** *The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons encouraged to apply.*

POSITIONS OPEN

DIRECTOR OF SPECIALTY SYNTHESIS

Integrated DNA Technologies, Inc. is seeking a qualified chemist for the position of **DIRECTOR** of its Specialty Synthesis Department. A Ph.D. in chemistry, biochemistry, or related field is required, with two or more years of experience in the area of oligonucleotide synthesis.

Integrated DNA Technologies, Inc. (IDT) offers a competitive compensation and benefit package and relocation assistance. IDT is located in an attractive community in close proximity to a major university and medical school complex. Please send a résumé and description of research/synthesis experience to:

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FACULTY POSITION MOLECULAR MICROBIOLOGY Baylor College of Medicine

The Department of Microbiology and Immunology, Baylor College of Medicine, invites applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR**. Candidates should have a Ph.D. or M.D. degree in microbiology or a related discipline, postdoctoral experience, and relevant publication record. Expertise in microbial pathogenesis or microbial physiology are preferred; other research interests will also be considered. The successful candidate will be expected to develop an independent research program based on extramural support and to participate in graduate and medical education within the Department. Please send curriculum vitae; summary of research interests; and the names, addresses, telephone numbers, and Email addresses of three references to: **Dr. Richard Hull, Department of Microbiology and Immunology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.** The application deadline is November 15, 1996, although candidates will be considered as applications are received.

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

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Tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** to develop extension/applied research program on insect and mite pest management in tree fruit (including apples, cherries, peaches, plums, apricots, nectarines, pears, and nuts). Requires Ph.D. in entomology or related field with interest and expertise in working with Michigan State University Extension staff and clientele to develop tree fruit insect and mite pest management programs. Closing date: October 1, 1996 or until a suitable candidate is identified. Send curriculum vitae, transcripts, reprints, and statement of career goals, and arrange to have three letters of reference sent to: **Edward J. Grafius, Search Committee Chairperson, Department of Entomology, Michigan State University, East Lansing, MI 48824-1115.** Telephone: 517-353-8695; Email: grafius@msue.msu.edu.

ASSISTANT PROFESSOR DEPARTMENT OF NEUROSURGERY

TENURE-TRACK POSITION (entry level) available for Ph.D. with experience and expertise in conducting laboratory research in molecular and cellular biology of tumors, with specific emphasis in one or more of the following areas: gene therapy, growth factors/signal transduction, oncogenes and tumor suppressor genes, molecular strategies for solid tumor therapy. Experience with brain tumors is encouraged but not required; however, the successful applicant will be expected to focus on brain tumors and to collaborate with departmental faculty in pursuing clinically significant research strategies. Salary and benefits are highly competitive. Send curriculum vitae, summary of research interests, and references to: **Ian McCutcheon, M.D., Deputy Chairman, Department of Neurosurgery, Box 64, University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030.** *Equal Opportunity/Affirmative Action Employer. Smoke-free environment.*

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The *Journal of Clinical Investigation*, a highly respected, peer-reviewed biomedical journal, is seeking a managing editor. B.A./B.S. degree and previous editorial/supervisory experience necessary. Salary commensurate with qualifications. Inquiries: **Stephen Weiss, M.D., Editor-in-Chief, 5220 MSRB III, Box 0640, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0640.** FAX: 313-764-0101. *Equal Opportunity/Affirmative Action Employer.*

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Ph.D., Biology or related field with 3+ years of experience in the *in vitro* and *in vivo* study of cancer therapeutics.

Interested applicants are requested to send a C.V. to:

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CDR Therapeutics
P.O. Box 19497
Seattle, WA 98109**

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Kenneth E. Fellows, M.D., Chair, Committee to Search for the Physician-in-Chief at the Children's Hospital of Philadelphia and Chair of Pediatrics of the University of Pennsylvania School of Medicine

Address:

**The Children's Hospital of Philadelphia
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Scientist, Molecular Virology & Host Defense

The selected professional will perform western blotting and kinase assays in support of stem cell biology research. Activities will include creating tissue cultures of primary cells and cell lines, refining assays for hematopoietic specificity, and evaluating new antibodies and targets. Qualified applicants will possess a BS in Biology (or related field), at least 1-5 years of relevant experience, and strong organization and data analysis skills. Experience in hematopoiesis is preferred, particularly in the areas of clonogenic assays, protein kinase or cell-cycle related work. Refer to Job Code H6-CEM.

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The Faculty seeks a person of integrity with vision and leadership skills to direct its future towards the highest standards of excellence in research, teaching, and service. The Dean will work at all levels, from local to international, to enhance and develop the Faculty's research contributions and academic programs. The successful candidate will be a strong advocate for the Faculty and for the place and importance of science and scientific research within society. S/he will also be able to work with all stakeholders of the Faculty in light of the emerging character of both science and society. The successful candidate will hold a PhD or equivalent degree in a recognized field of science, a continuing record of achievement in her or his career including evidence of commitment to innovation.

Situated in the foothills of the Canadian Rockies, Calgary has a highly educated population of 750,000 and the University benefits from supportive interactions with its vibrant, surrounding communities. The University of Calgary has approximately 23,000 full-time students and 5,000 academic and support staff. It is an exciting place of education and scholarly inquiry with growing national and international stature.

The Faculty of Science is one of the largest at The University of Calgary and consists of six departments: Biological Sciences; Chemistry; Computer Science; Geology and Geophysics; Mathematics and Statistics; and Physics and Astronomy. Programs of study are offered at the bachelor's (BSc), master's (MSc), and doctoral (PhD) levels. The Faculty of Science has 1,600 undergraduate students, 300 graduate students, and 191 faculty members.

In accordance with Canadian immigration requirements, priority will be given to citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.

Nominations and applications should be submitted by September 30, 1996. A curriculum vitae and the names of three referees are required.

Dr. J. D. Calkin
Vice-President (Academic) and Provost
The University of Calgary
2500 University Drive N.W.
Calgary, Alberta, Canada T2N 1N4
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Research Associates: Applicants should have an MS or BS degree and at least two years of academic or industrial experience in the area of receptor binding and/or second messenger assays. (Dept: 185b)

Histopharmacology:

Scientist: Applicants should have a Ph.D. in a neuroscience-related field, 2 years of postdoctoral experience, and demonstrated expertise in one or more of the following areas: quantitative receptor autoradiography, in situ hybridization histochemistry and immunocytochemistry. Practical expertise in either molecular biology or protein biochemistry would also be beneficial. (Dept: 186a)

Research Associates: Applicants should have an MS or BS degree with some experience in neuroanatomical techniques such as in situ hybridization histochemistry, immunocytochemistry, receptor autoradiography or northern blot analysis. (Dept: 186b)

Molecular Biologist:

Scientist: Applicants should have a Ph.D. and a minimum of 2 years postdoctoral experience with demonstrated expertise in Molecular Biology and a proven record in expression cloning. The successful candidate will be a highly motivated individual with primary interest in the molecular biology of neuropeptide receptors. (Dept: 187)



For consideration, indicate to which position you are responding and send resume in confidence to:

Human Resources Manager, Dept #, Synaptic Pharmaceutical Corporation, 215 College Road., Paramus, New Jersey 07652.

Receptor Molecular Biology / Pharmacology



The Division of Cardiovascular Diseases of the Mayo Clinic and Foundation invites applications for an established investigator position at the rank of Associate or full Professor. Applicants should have an M.D. or Ph.D. degree and an established record of accomplishment in basic cardiovascular research such as in molecular or cellular biology which focuses upon endothelial, vascular smooth muscle or cardiac myocyte biology. Excellent institutional resources and long-term support are available. Written applications including CV, three letters of recommendation and a description of research interests should be sent to: **John C. Burnett, Jr., M.D., Cardiovascular Chair for Research, Director, NIH Cardiovascular Research Training Program, Mayo Clinic, 200 First Street, SW, Rochester, MN 55905.** Applications will be considered until September 1, 1996. *Mayo Foundation is an affirmative action and equal opportunity educator and employer.*

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Merck Research Laboratories, a worldwide leader in biological and pharmaceutical research, has immediate job opportunities for highly gifted and experienced Molecular Biologists for basic research and preclinical development of biologicals in the following capacities:

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This position involves molecular biology research emphasizing plasmid design and E. coli host modification for increasing plasmid replication. Strong background in bacterial genetics, genome manipulation, and DNA replication is required. Specific skills include a thorough understanding of bacterial plasmids and expression systems, and ability to facilitate manipulate and analyze plasmids, host systems, and bacterial phenotypes. Additional experience with mammalian gene regulation and fermentation would be an advantage. A B.S. or M.S. in Molecular Biology, related field or equivalent with specific background in bacterial genetics and 2-3 years of relevant research experience are required.

Position Code #B-64

This position involves molecular biology research emphasizing plasmid-driven expression of heterologous genes in mammalian tissues to support vaccine development programs. A strong background in mammalian and viral gene expression fundamentals and plasmid construction is required. Specific skills include thorough understanding of plasmids and expression systems, ability to facilitate manipulate and analyze plasmids, cell culture and transfection, Western/Northern blot analyses, PCR amplification, and DNA sequencing. Additional experience in virology and/or immunology would be an advantage. A B.S. or M.S. in Molecular Biology/Biochemistry or equivalent with specific background in mammalian gene expression and 2-3 years of relevant research experience are required.

Excellent salary and benefit programs accompany these positions at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with cover letter to: **Manager, Human Resources, (indicate Position Code #), MRL Human Resources WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19386.** Only candidates to be interviewed will be contacted. EEO/AA/V/Employer.



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In May 1996, we received a license to market Avonex™. This accomplishment improves our record of success and is based on the hard work and dedication of our employees. We are now seeking committed professionals with strong values to join the Biogen team in the following positions:

Q.C. Microbiology Manager

You will be responsible for designing, implementing, and maintaining Microbiology systems, procedures, and testing activities. This includes managing Microbiology analysts and technicians and assuring that lab operations and reporting conform to Biogen and regulatory requirements. Provide technical support to auditing and supplier quality management. Requires a BS in Microbiology or a related discipline; graduate experience preferred. You should have a minimum of 8 years of pharmaceutical experience and 3 years of supervisory experience with progressive technical experience. You should also have knowledge of QC systems and release testing of pharmaceutical products, including aseptic fill operations, as well as knowledge of production water systems and environmental monitoring systems. GMP and GLP knowledge required. (Code JM)

Scientist – Gene Expression

Unique opportunity to independently work on the creation of novel expression vectors and other methods for cell line improvements. In this role, you will be responsible for the construction of cell lines destined for GMP manufacturing; collaborate with scientists in process development working on media and cell line screening development and with research scientists involved with expression of early product candidates; and carry out genetic evaluation of GMP cell lines as required by regulatory agencies. A Ph.D. in molecular or cellular biology with at least 2 years of post doctoral experience, the ability to design and conduct independent studies involving the optimization of protein production in mammalian cells and industrial experience in construction of commercial cell lines is required. (Code DP)

Scientist – Virology/Cell Biology

In this newly created role, you will direct the development, validation, and implementation of viral testing procedures, both internally and at contract laboratories. Initially, you will manage the contract testing, liaise with Regulatory agencies and other biotech companies on improving viral testing and prevention, and eventually build an internal group to conduct this testing. Also, you will assist with creating and optimizing assay specific cell lines for potency and pharmacokinetic assays. We seek a Ph.D. in Virology or Cell Biology with at least 5 years' postdoctoral experience with viral assays, transfections, PCR and cell line optimization. Additionally, industry experience with knowledge of cGMPs and regulatory agencies preferred. The successful candidate will be able to work with minimal supervision, possess strong communication skills and be willing to travel when necessary. (Code DP)

Scientist

Opportunity to contribute towards the experimental design and direction of our small molecule programs. Specifically, you will develop and validate HPLC and Mass Spectrometry Bioanalytical methods as well as test samples from clinical, toxicology, pharmacokinetic, formulation and stability studies. In addition, you will set-up and monitor contracts with external testing laboratories. We seek a Ph.D. in analytical chemistry with a strong record in HPLC/Mass Spectrometry assay development and validation with at least 2 years' experience in analyzing compounds in biological fluids. Also, you must have a GLP or GMP experience, meticulous record keeping skills and strong communication ability. (Code DP)

Biogen offers what few companies in our industry can — Professional Challenge, Stability, Growth, and one of the strongest financial profiles in the industry. In addition, our compensation and benefits package, including equity participation, is one of the best in the industry, and is designed to attract and retain the finest talent available. If you are one of the best, this is your opportunity to join our expanding universe. Please forward your resume, indicating appropriate job code to:

Biogen, Inc., 14 Cambridge Center,
Cambridge, MA 02142. FAX: (617) 679-2546

BIOGEN

Biogen is an equal opportunity employer.
<http://www.careermosaic.com/cm/biogen>



University of Illinois at Urbana-Champaign

Faculty Position (Open Rank) Department of Biochemistry

The Department of Biochemistry, within the School of Chemical Sciences at the University of Illinois at Urbana-Champaign, is seeking applicants for a faculty position which will carry a full-time, tenure-track appointment. The position is open to rank and will commence on August 21, 1997.

Outstanding candidates whose expertise is in the use of NMR spectroscopy to study the structures and properties of proteins, nucleic acids, and/or carbohydrates will receive full consideration. Examples of research areas of interest are structural and dynamic properties of membrane proteins, protein-protein interactions such as those involved in signal transduction, time-resolved dynamics of enzymes, and both protein-DNA and protein-carbohydrate interactions.

The School of Chemical Sciences, through partial support from the Keck Foundation, has created a Center for Complex Structures with multiple NMR instruments, including wide-bore magnets, operating at 750 MHz, 600 MHz, 500 MHz, and 400 MHz. The successful candidate must have demonstrated excellence in research as well as the ability to participate effectively in both the undergraduate and graduate teaching programs of the Department. The rank and starting salary is dependent upon the experience and qualifications of the candidate. A doctoral degree and postdoctoral experience in NMR spectroscopy is required.

To ensure full consideration, submit a letter of application, a curriculum vitae, with a list of publications and a brief description of future research plans, and arrange to have letters of recommendation from three qualified scientists sent to the Search Committee by October 15, 1996. Applications and requests for further information should be directed to:

The Biochemistry Search Committee
Department of Biochemistry
University of Illinois at Urbana-Champaign
600 South Mathews Avenue
Urbana, IL 61801
Phone (217) 333-4889

The University of Illinois is an Affirmative Action - Equal Opportunity Employer.



NORTHWESTERN UNIVERSITY DEAN OF THE MEDICAL SCHOOL

Northwestern University invites nominations and applications for the position of Dean of the Medical School. The Northwestern University Medical School is located on the University's Chicago Campus and has a current enrollment of approximately 700 medical students, 200 doctoral-level graduate students, and 875 M.D.s engaged in 27 graduate training programs in the five affiliated hospitals. The School and its hospitals have a combined total of 1000 full-time and 1500 contributed service faculty and combined sponsored project budgets of \$80 million. The Northwestern Medical Faculty Foundation (the faculty multi-specialty group practice) includes 450 physicians and has revenues of more than \$150 million annually. The Dean is the Chief Executive Officer of the Medical School and also serves as: chair of the Board of Directors of the Faculty Foundation; a member of the Boards of Directors of four affiliated teaching hospitals; and President of the McGaw Medical Center of Northwestern University (an organization of the affiliated hospitals whose primary activity is the sponsorship of the Graduate Medical Education Program). Candidates must hold an M.D. or equivalent degree and demonstrate successful managerial experience in a medical school environment. The successful candidate will likely be a distinguished physician scientist.

Nominations and applications should be forwarded to:

Co-chairs of the Dean Search Committee
c/o Lewis Landsberg, M.D.
Department of Medicine
250 E. Superior
Wesley Pavilion 296
Chicago, Illinois 60611

For full consideration, nominations and applications should be received no later than Friday, September 13, 1996.

Northwestern University is an equal opportunity, affirmative action educator and employer.

GRANT

GRANT OPPORTUNITY

U.S. Civilian Research & Development Foundation *for the Independent States of the Former Soviet Union*

announces a competitive grants program for
**COLLABORATIONS IN BIOMEDICAL
AND BEHAVIORAL SCIENCES**
*made possible by an award from the National
Institutes of Health, U.S. Department of Health
and Human Services*

Teams of scientists from the U.S. and the former Soviet Union may apply for cooperative grants of up to \$80,000 for support of biomedical and behavioral science research and development projects.

Application deadline: February 15, 1997

For eligibility guidelines and application materials, please contact:

Biomedical & Behavioral Sciences Program
U.S. Civilian Research & Development Foundation
1800 North Kent Street, Suite 1106
Arlington, VA 22209 USA
Tel: 703-526-9720 • Fax: 703-526-9721
E-mail: information@crdf.org
WWW: <http://www.crdf.inter.net>

SYMPOSIUM

SUSCEPTIBILITY AND RISK ASSESSMENT

The Third Annual Symposium of the
National Health & Environmental Effects Research Laboratory

The National Health & Environmental Effects Research Laboratory (NHEERL) of the U.S. Environmental Protection Agency is pleased to announce that its Third Annual Symposium will be held September 24-27, 1996 at the Omni Durham Hotel and Durham Civic Center in Durham, North Carolina. This third in the Annual NHEERL Symposium Series on Research Advances in Health Risk Assessment will focus on known factors affecting the susceptibility of humans, experimental animal models, or cell tests systems to environmental toxicants with the goal of refining risk assessment strategies which must consider variable population response. Protection of the "susceptible individual" is a fundamental goal of environmental regulation. Indeed, it is generally accepted that if the susceptible individual is protected then the entire population will be protected. The format of the NHEERL Symposium will include invited platform presentations and contributed poster presentations. For more information, please contact:

1996 NHEERL Symposium
Susceptibility and Risk Assessment
c/o NHEERL Conference Coordinator
U.S. EPA

NHEERL, MD-70
Research Triangle Park, NC 27711

Phone: (919) 541-5193

Fax: (919) 541-4002

Internet: [MEETING\\$MAIL@HERL45.HERLEPA.GOV](mailto:MEETING$MAIL@HERL45.HERLEPA.GOV)

A New Generation of Disease Prevention

Prevention represents the optimal strategy against infectious disease. North American Vaccine, Inc. is a leader in the development of safe and effective vaccines - the cornerstone of this effort. Join us as we develop and market the next generation of vaccines for the next generation of children.

FERMENTATION SCIENTISTS/ PROCESS DEVELOPMENT ENGINEERS

Qualified candidates will have a PhD in Microbiology, Biochemical/Chemical Engineering with a minimum of 3 years biotech industry experience. Specific experience in fermentation and/or downstream process development, optimization, scale-up and technical support for biological manufacturing is highly desired. Strong problem solving aptitude, as well as excellent interpersonal and communication skills are also required.

For immediate consideration, please send/fax your resume INDICATING POSITION 645-E to:

NORTH AMERICAN VACCINE, INC.
c/o AMVAX, INC.
Human Resources Manager
12103 Indian Creek Court
Beltsville, MD 20705-4223
FAX: (301) 470-6198
EOE/AA



NORTH AMERICAN VACCINE, INC.

G PROTEIN SIGNAL TRANSDUCTION

The structure and function of G protein subunits is being investigated with emphasis on the beta-gamma complex. The assembly of beta-gamma heterodimers and their interactions with G protein alpha subunits, receptors and effectors are being studied using molecular biologic and biochemical techniques. Position available September 1, 1996. Candidates should have less than five years postdoctoral experience. Please reply to:

William F. Simonds, M.D.
MDB/NIDDK
NATIONAL INSTITUTES OF HEALTH
Bldg. 10/Room 8C-101
10 CENTER DRIVE MSC 1752
BETHESDA, MD 20892-1752

Tel (301) 496-9299
Fax (301) 402-0374
wfs@helix.nih.gov



HESKA

Heska Corporation

Exciting science, innovative technology, and dramatic potential are characteristics of the Heska Corporation. Our research teams have created unique products in companion animal health and we continue to apply new technologies to create new product opportunities.

We are seeking select individuals to help make Heska the dominant biotechnology company in companion animal care. Open positions include the following:

Project Coordinator, Molecular Vaccines

To develop live viral vector vaccines and genetic immunization technologies for companion animals. Will lead an established group of researchers and will be expected to recruit several more individuals. The successful candidate will have a Ph.D. in virology, molecular biology, or a related field with a minimum of five years post-doctoral research, a substantial publication record, and managerial experience. Essential skills include molecular genetics of eukaryotic expression systems, basic immunology, and demonstrated leadership and collaborative abilities.

Scientist, Genetic Immunization

To design and carry out experiments leading to nucleic acid-based vaccines for companion animals. The successful candidate will have a Ph.D. with significant post-doctoral research and managerial experience, familiarity with nucleic acid vaccination technology, and strong molecular biology skills, including experience with eukaryotic protein expression systems.

Scientist, Viral Vectors

To focus on the use of poxviruses as live recombinant vaccine vectors. The successful candidate will have a Ph.D. in virology or a related field with extensive post-doctoral research and managerial experience, demonstrated skill in the construction and characterization of recombinant viruses, and experience with eukaryotic expression systems.

Project Coordinator, Biochemistry Core

To lead and coordinate the expression and purification of recombinant proteins and to direct Heska's sequencing facility. This individual will lead an established group of researchers and will be expected to recruit several more scientists. The successful candidate will have a Ph.D. in biochemistry or a related field with a minimum of five years post-doctoral research, a substantial publication record, and managerial experience. Essential skills include experience with recombinant protein purification; eukaryotic and prokaryotic protein expression systems; and DNA, protein, and peptide sequencing.

Scientist, Recombinant Protein Expression

To develop novel strategies to optimize expression of recombinant proteins. The successful candidate will have a Ph.D. in molecular genetics or related field with significant post-doctoral research and managerial experience. Familiarity with multiple expression systems, including *E. coli* and baculovirus, strong molecular biology skills, and the ability to work rapidly in a high pressure environment are required.

Heska is located at the foot of the Rocky Mountains, in Fort Collins, Colorado, sixty miles north of Denver. We offer a highly competitive salary and benefits package, including stock options. To apply, please send resume, publication list, and three references to Diane McCoy, Director of Human Resources, Heska Corporation, 1825 Sharp Point Dr., Ft. Collins, CO 80525. Please include job title in all correspondence.

POSITIONS OPEN

HEALTH SCIENTIST
(ASSOCIATE DIRECTOR FOR
ANTIMICROBIAL RESISTANCE)
National Center for Infectious Diseases
Centers for Disease Control and Prevention (CDC)
Atlanta, Georgia

The **ASSOCIATE DIRECTOR** for Antimicrobial Resistance provides leadership in the coordination of antimicrobial resistance activities in the National Center for Infectious Diseases and participates in development of all matters of policy formulation; establishment of program priorities, plans, and objectives; and program evaluation.

Qualifications include: skill in managing infectious disease surveillance, epidemiologic, and/or laboratory research programs; demonstrated experience in evaluation and approval of protocols, research proposals, manuscripts, and disease control recommendations; ability to communicate effectively; and ability to build consensus for, and to implement, long-range goals and objectives. A doctoral degree (M.D., Ph.D., Sc.D. or other) in microbiology, infectious diseases, public health, epidemiology, biomedicine, or related field is desirable. Depending on qualifications, the annual salary range is \$72,862 to \$94,721. Public Health Service Commissioned Corps Officers are also eligible to apply. Interested applicants may send their curriculum vitae postmarked by August 31, 1996 to: **Janie Oddy, Human Resources Management Office, Mailstop K15, Centers for Disease Control and Prevention, 1600 Clifton Road, Atlanta, GA 30333. Telephone: 770-488-1905.** This is a critical-sensitive position requiring an investigation and drug test for security clearance. *CDC is an Equal Opportunity Employer and provides a smoke-free work environment.*

ASSOCIATE/ASSISTANT PROFESSOR BIOLOGY

Transylvania University invites applications for a **TENURE-TRACK** position in Animal Physiology, preferably mammalian, to teach undergraduate courses, direct student research, and develop curriculum. Ph.D. required; teaching experience and program leadership preferred. Research facilities include a laboratory and NIH-approved animal care room. Transylvania is a small, private, residential liberal arts college. Teaching responsibilities include Animal Physiology, Cell Biology, and General Biology. Bingham Awards for Excellence in Teaching may provide salary supplements for exceptional senior candidates or smaller start-up grants for especially promising junior candidates. Send application letter, curriculum vitae, statement of teaching philosophy, and three letters of recommendation to: **Dr. James E. Miller, Chair, Division of Natural Sciences and Mathematics, Transylvania University, Lexington, KY 40508-1797.** Applications will be reviewed upon arrival with a deadline of October 15, 1996. *Transylvania is an Equal Opportunity Employer.*

The University of Virginia is seeking qualified applicants for a tenure-track **ASSISTANT PROFESSOR** position in the area of organic chemistry, broadly defined. Candidates are expected to establish a high quality productive research program that will attract outside funding and top caliber graduate students and postdoctoral collaborators. Teaching ability at both graduate and undergraduate levels is a prime consideration. Applicants should send a curriculum vitae, copies of reprints/preprints, and a detailed description of research plans no later than October 1, 1996, to: **Prof. James A. Marshall, Chairman of Organic Faculty Search Committee, Department of Chemistry, McCormick Road, University of Virginia, Charlottesville, VA 22901.** Applicants should also arrange that three letters of recommendation be sent to the above address by the same date. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

PROGRAM ADMINISTRATOR to provide staff support to committees and project administration for scientific society in Philadelphia, Pennsylvania. Candidate must have minimum of seven years of work experience in administration (preferably nonprofit association management) or biomedical research. Position requires excellent written and oral communication skills, versatility, accuracy, and computer literacy. Familiarity with needs and practices of scientific community valuable. Candidate must demonstrate knowledge and personal characteristics that will advance programs. Graduate degree desired. Send covering letter, résumé, writing sample, and desired salary to: **P.O. Box 40138, Philadelphia, PA 19106.**

POSITIONS OPEN

STANFORD UNIVERSITY
DEPARTMENT OF CHEMISTRY
ASSISTANT PROFESSOR
Two Faculty Positions (Tenure-Track)

Completed applications must be received by October 15, 1996. Appointment commences on September 1, 1997.

Applicants must be strongly motivated toward creative research and have a commitment to teaching at the undergraduate and graduate levels.

Applications for the faculty position in the general area of **ORGANIC CHEMISTRY** should include a current curriculum vitae and list of publications and a brief statement of research interests (three pages or less). Arrange to have three letters of reference sent on your behalf to:

**Chairman, 1996 Organic Chemistry
Search Committee
Department of Chemistry
Stanford University
Stanford, CA 94305-5080**

Applications for the faculty position in the general area of **PHYSICAL CHEMISTRY** should include a current curriculum vitae and list of publications and a brief statement of research interests (three pages or less). Arrange to have three letters of reference sent on your behalf to:

**Chairman, 1996 Physical Chemistry
Search Committee
Department of Chemistry
Stanford University
Stanford, CA 94305-5080**

Stanford University is committed to Equal Employment Opportunity through Affirmative Action and is eager to identify minority persons and women with appropriate qualifications.

FACULTY POSITION IN PHARMACOLOGY

A tenure-track position at the **ASSOCIATE** or **FULL PROFESSOR** level is currently available in the Pharmacology Department of the Penn State College of Medicine. The position requires a Ph.D. degree and demonstrated experience in molecular pharmacology. Research areas of special interest include antisense oligonucleotide therapeutics, patch clamp analysis of ion channels, and mechanisms of signal transduction. Proven capability in generating extramural support and ability to work as an independent investigator will be crucial factors in the selection process.

Start-up funds are available; salary will be commensurate with experience and qualifications. The successful candidate will participate in teaching medical and graduate students. Previous experience teaching pharmacology would be helpful.

Interested applicants should send a curriculum vitae, three representative reprints, and names and addresses of three references to: **Dr. Elliot S. Vesell, Department of Pharmacology, Pennsylvania State University College of Medicine, Hershey, PA 17033.** Deadline for receipt of applications is October 9, 1996.

Equal Opportunity/Affirmative Action Employer; minorities and females encouraged to apply.

ACADEMIC POSITION

ASSISTANT PROFESSOR. The Department of Chemistry and Biochemistry of The University of Texas at Austin solicits applications for a tenure-track assistant professorship beginning September 1, 1997. Exceptional candidates whose research training and interests are in areas of experimental physical chemistry or inorganic chemistry/materials chemistry are especially encouraged to apply. Candidates who have demonstrated outstanding research ability and who show promise in teaching should forward by October 1, 1996, a curriculum vitae, short descriptions of research plans, and three letters of reference to: **Search Committee, Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, TX 78712.** *Equal Opportunity/Affirmative Action Employer.*

INSTRUCTOR, BIOLOGICAL SCIENCES

TENURE-TRACK FACULTY position in the School of Physical/Life/Health Science. The assignment will be to teach any of the following: general biology, human anatomy, human physiology, and microbiology. Master's degree in biological science. Deadline: August 23, 1996. Salary commensurate with experience. Application and information may be obtained from: **Chaffey College, Personnel, 5885 Haven Avenue, Rancho Cucamonga, CA 91737-3002. Telephone: 909-941-2158.** <http://www.ccc.edu/cc/chaffey>.

POSITIONS OPEN

ASSOCIATE PROFESSOR/PROFESSOR
Stanford University School of Medicine

The Division of Otolaryngology/Head and Neck Surgery invites applications for a Ph.D. or M.D. director of the Liem Sioe Liong Molecular Biology Laboratory at the **ASSOCIATE PROFESSOR** or **PROFESSOR** level. The individual will direct and conduct independent research in pathogenesis of head and neck diseases. Opportunity exists for collaborative interdepartmental research with other investigators at Stanford University Medical Center.

Qualifications include the Ph.D., M.D., or equivalent degree; completed postdoctoral fellowships in either molecular biology, genetics, tumor immunology, or cancer biology; advanced training with evidence of productivity in research; and a commitment to teaching. The candidate should have eight years of demonstrated research experience, with publications in peer-reviewed journals, and current independent research funding.

Letters of inquiry with curriculum vitae and the names and addresses of four people familiar with the applicant's work should be sent to:

**Willard E. Fee, Jr., M.D.
Edward C. and Amy H. Sewall Professor
Division of Otolaryngology/Head and Neck Surgery
Stanford University Medical Center
300 Pasteur, R-135 Edwards
Stanford, CA 94305-5328**

Stanford University is committed to increasing representation of women and minority groups on its faculty and particularly encourages applications from such candidates.

CHAIRMAN, DEPARTMENT OF BIOLOGY

The Biology Department of Boston University invites applications for a Departmental **CHAIRMAN**. The Biology Department has 38 full-time faculty members with broad-based research interests in the following areas: cell and molecular biology; physiology, endocrinology, and neurosciences; ecology, behavior and evolutionary biology; and marine sciences.

There is a strong undergraduate program in biology, which is currently supplemented by educational grants from the National Science Foundation and the Howard Hughes Medical Institute, and there is an extensive graduate program with approximately 120 Ph.D. students. The Chairman will bring an international research reputation and will have the stature and vision to lead a major program development. We expect the successful candidate to have an active research program that will use cellular or molecular approaches to study a basic problem in biology. We have particular interest in research that has relevance to aspects of neurobiology or whole organism physiology. Suitable candidates may be able to take advantage of collaborative interactions with related research initiatives in chemistry, psychology, and biomedical engineering.

Curriculum vitae, a list of publications, and a brief description of research and administrative experience should be sent as soon as possible to: **Chairman Search Committee, Biology Department, Boston University, 5 Cummings Street, Boston, MA 02215-2406.** Further information about the Biology Department can be found on its WWW page: <http://bio.bu.edu>. *Boston University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

Columbia University's Department of Earth and Environmental Sciences seeks an **ASSISTANT PROFESSOR** with expertise in plant physiology and ecology. This person would be based at Lamont-Doherty Earth Observatory where he or she would develop a laboratory-based research program. In addition, this person would be expected to aid in the development of the newly established research program at Biosphere 2 involving the impacts of elevated atmospheric CO₂ contents on growth rate and water usage by a variety of plants. A commitment to quality teaching at both the undergraduate and graduate level is expected.

The successful candidate will have completed a Ph.D. Postdoctoral experience is a plus. Closing date for applications is October 15, 1996. The intended start date could be as soon as January 1997. Submit application, curriculum vitae, and a statement of research intent to: **David Walker, Chair, Department of Earth and Environmental Sciences, Lamont-Doherty Earth Observatory of Columbia University, Box 1000, Palisades, NY 10964.** *Columbia University is an Affirmative Action/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

WE'RE CHANGING MILLIONS OF LIVES. NOW IT'S YOUR TURN.

At Lederle-Praxis Biologicals, we're pioneering the design, manufacture and marketing of vaccines so sophisticated, they're changing lives—right now.

Here, you'll help improve the quality of a lot of lives. Including your own. Our research facility, located in a suburb of Rochester, NY, is within easy reach of some of New York State's most attractive cultural, educational and recreational resources.

ASSISTANT MANAGER Business Development

We are seeking an experienced individual to oversee the research analysis of business opportunities and assess potential markets. You will negotiate relationships with leading researchers and institutions in the field for consulting and contact research and establish financial evaluations of projects or technology. You will also follow licensing objectives, policies and programs and initiate proposals, negotiations and presentations for the acquisition of licensing opportunities and technologies. You will identify new opportunities for business collaborations in the area of contract manufacturing and other possible new products.

The successful candidate will possess an M.S. in Science or equivalent, 4-5 years' experience in laboratory research with specialized training in market research, competitive analysis, contract negotiation and strategic product planning. An MBA is highly desirable.

Lederle-Praxis Biologicals offers a dynamic, professional atmosphere and an excellent salary and benefits package. To apply, please send a resume to: Human Resources Department, Lederle-Praxis Biologicals, 211 Bailey Rd., West Henrietta, NY 14586-9728. An Equal Opportunity Employer.



Lederle-Praxis Biologicals
Protecting Families Through Immunization®

NIH Postdoctoral Position—AIDS Research HIV Env/CD4 Interactions, Fusion Cofactors, Tropism

Projects: 1) Identification of cofactors on CD4+ cells required for HIV fusion and entry [*Virology* (1993) 193:483; *Science* (1994) 264:1156]; role of fusion cofactors in tropism of HIV and SIV for different CD4-positive cell types [*PNAS* (1995) 92:9004; *J. Virol.* (1996) 70:5487]. These studies make use of a novel reporter gene assay for fusion [*J. Virol.* (1994) 68:5411]. We recently cloned a cDNA encoding a putative chemokine receptor that functions as a fusion cofactor for T-cell line-tropic HIV-1 strains [*Science* (1996) 272:872]; we also identified a distinct chemokine receptor as a fusion cofactor for macrophage-tropic strains [*Science* (1996) 272:1955]. 2) Structure/function analysis of env/CD4/cofactor interactions and CD4-induced conformational changes [*J. Virol.* (1993) 67:913]. 3) Analysis of role of fusion cofactors in pathogenesis and transmission. 4) Design of novel AIDS therapeutics and screening methods based on env/CD4/cofactor interactions. 5) Paramyxovirus glycoprotein/receptor interactions and fusion mechanisms [*J. Virol.* (1995) 69:3341].

Experimental approaches include expression of recombinant proteins (emphasis on vaccinia virus vectors); biochemical, genetic, and immunochemical analyses of fusion reactions; development of novel functional cDNA library screening methods.

Position available immediately (August 1996); later starting dates considered. Experience in molecular biology, protein chemistry, immunology, membrane biochemistry, or virology strongly preferred. Send CV and names of three references to:

Edward A. Berger, Ph.D.

**Chief, Molecular Structure Section
Laboratory of Viral Diseases, NIAID
Bldg. 4, Rm. 236**

**National Institutes of Health
Bethesda, MD 20892**

Phone: (301) 402-2481, FAX: (301) 480-1147

email: edward_berger@nih.gov

NIH is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR/BIOCHEMISTRY

Twelve-month **TENURE-TRACK** position at the University of Idaho to begin January 1997. We are interested in candidates capable of establishing a nationally competitive program in plant biochemistry conducting research at the molecular level in 1) plant protein-protein interaction, 2) effects of pathogens on plant metabolism, or 3) regulation of plant metabolism. The successful candidate must have a strong commitment to teaching excellence and will be responsible for a one-semester undergraduate lecture/laboratory course in basic biochemistry to be taught each year and a graduate level course in his or her area of expertise in alternate years. Applicants should have a Ph.D. in biochemistry or related field, postdoctoral experience, and documented research capabilities. Send letter outlining research and teaching interests, curriculum vitae, and three reference letters by September 15, 1996, to: **Dr. William Trumble, S. C. Chair, Department of MMBB, University of Idaho, Moscow, ID 83844-3052. FAX: 208-885-6518; Telephone: 208-885-7966; Email: btrumbl@uidaho.edu.** *University of Idaho is an Affirmative Action/Equal Opportunity Employer.*

HARVARD UNIVERSITY ASSISTANT PROFESSOR

Molecular and Cellular Biology (MCB)

The Department of Molecular and Cellular Biology (MCB) has an opening for an **ASSISTANT PROFESSOR** (entry-level) starting September 1997. Our department includes a broad range of fields in molecular biology, cellular biology, developmental biology, structural biology, neurobiology, and molecular genetics. We are particularly, although not exclusively, interested in candidates specializing in research at the interface between chemistry and biology. Applications should include a curriculum vitae, reprints of publications, and a statement of present and future research plans (one to three pages). Complete applications and three letters of recommendation, solicited by the applicant, should be received no later than October 1, 1996 by: **MCB Search Committee, Harvard University, 7 Divinity Avenue, Cambridge, MA 02138. Telephone: 617-495-2327.** *Harvard University is an Affirmative Action/Equal Opportunity Employer. We strongly encourage applications from women and minority groups.*

ENDOWED CHAIR CARDIOVASCULAR RESEARCH

Established cardiovascular scientists are invited to apply for the Frank W. Mayborn **CHAIR** in Heart Research at the Texas A&M University Health Science Center. The holder of the Chair will have a nationally recognized, well-funded research program. Candidates in all areas of cardiovascular science will be given serious consideration. Investigators who apply the tools and concepts of molecular and cell biology to understanding cardiovascular behavior are encouraged to apply. In addition to continuing a high-quality individual research effort, the successful candidate will have programmatic responsibility for developing a cardiovascular research unit on the clinical campus and will work with clinical investigators and basic scientists to establish a Health Science Center-wide cardiovascular research and training center. Interested individuals should send a curriculum vitae, the names of three references, and a statement of current research interests to: **Harris J. Granger, Ph.D., Chairman, Mayborn Chair Search Committee, Department of Medical Physiology, Texas A&M University Health Science Center, College Station, TX 77843-1114.**

Texas A&M University is an Affirmative Action/Equal Opportunity Employer committed to diversity.

POSTDOCTORAL POSITION University of Virginia

A position is available immediately in X-ray crystallography of protein-nucleic acid complexes. Applicants must have prior experience with protein crystallography. Send curriculum vitae and two letters of reference to: **Dr. Fraydoon Rastinejad, University of Virginia, Box 448-Pharmacology, 1300 Jefferson Park Avenue, Charlottesville, VA 22908. Email: fraydoon@virginia.edu.**

POSTDOCTORAL—Two postdoctoral positions available: 1) pharmacology of multidrug resistance; 2) biochemical studies of membrane transporters; experience with membrane proteins or transporters advantageous. Please send complete curriculum vitae plus three letters of reference to: **Dr. Kruh, c/o Human Resources, The Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** *Equal Opportunity Employer.*

POSITIONS OPEN

IMMUNOLOGY FACULTY POSITIONS

The Department of Microbiology and Immunology invites applications for two tenure-track positions (**ASSISTANT PROFESSORS**). We are seeking investigators whose research interests are directed to molecular and/or cellular analyses of contemporary problems in immunology. Candidates will be expected to develop high quality, extramurally funded independent research programs with long-term growth potential. Teaching responsibilities, which emphasize quality rather than quantity, include medical, dental, and graduate students. The Department offers a high quality, interactive intellectual environment with strong extramural research support.

The Department maintains a Molecular Resource Center within the Department featuring state-of-the-art facilities for oligonucleotide synthesis, peptide synthesis, monoclonal antibody production, DNA sequencing, and flow cytometry. Funds for the initiation of research programs will be available and salaries will be highly competitive.

The review of applications will begin on September 16, 1996 and will continue until the positions are filled. Applications should consist of curriculum vitae, copies of several recent publications, a brief statement of future research goals, and three letters of reference to be sent to:

**Dr. Terrance G. Cooper
Department of Microbiology and Immunology
The University of Tennessee, Memphis
858 Madison Avenue, Room 801
Memphis, TN 38163**

Detailed information about the Department may be obtained from the World Wide Web home page <http://microbiology.utmem.edu>. *The University of Tennessee, Memphis is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.*

X-RAY CRYSTALLOGRAPHY FACULTY POSITION

Structural Biology Program at National Jewish Center for Immunology and Respiratory Medicine

An excellent opportunity to establish an X-ray crystallography facility at the National Jewish Center in Denver. The successful candidate will maintain an independent research program while participating in an emerging intercampus Structural Biology Program at the National Jewish Center, The University of Colorado Health Sciences Center, and the University of Colorado at Boulder. The National Jewish Center has a productive, interactive faculty who are leaders in the fields of immunology, cell biology, signal transduction, and the molecular biology of disease.

Applicants should submit a curriculum vitae containing a brief summary of past research accomplishments and a statement of future research goals to: **John Kappler, Ph.D., Howard Hughes Medical Institute, National Jewish Center for Immunology and Respiratory Medicine, 1400 Jackson Street, Denver, CO 80206. Telephone: 303-398-1322.**

The Division of Geriatrics, Department of Medicine, and the Center on Aging of the UCLA School of Medicine are recruiting a senior scientist at the **ASSOCIATE** or **FULL PROFESSOR** rank to lead a basic science research program on aging at the UCLA Center for Health Sciences. This tenured position has a state supported base salary and offers outstanding opportunities for collaboration with basic scientists within the Department and eight basic science degree granting Departments at UCLA, as well as geriatricians in one of the nation's top-ranked programs. Please submit curriculum vitae with three references to: **David B. Reuben, M.D., A-665 Factor Building, Box 951687, Los Angeles, CA 90095-1687.** *UCLA is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available October 1, 1996 to study gene transfer of tumor suppressor genes in the treatment of lung cancer. Studies involving gene transfer in murine models of thoracic neoplasms using adenoviral and retroviral vectors are currently underway. Applicants should have experience in molecular biology techniques, cell culture, and the propagation and development of adenoviral vectors. This position is funded for three years. Applicants should send curriculum vitae and two letters of reference to: **Robert Kratzke, M.D., Section of Hematology/Oncology, 111E, MVAMC, Minneapolis, MN 55417. Email: kratzke.robert@minneapolis.gov.**

POSITIONS OPEN

FACULTY POSITION Circadian Biology University of Virginia

The Department of Biology at the University of Virginia (<http://www.virginia.edu>) invites applications for a **TENURE-TRACK/TENURED** appointment. We are seeking an exceptional researcher and committed teacher who is using molecular and/or genetic methods to investigate the mechanisms underlying circadian rhythmicity. Rank is open, although preference will be given to junior applicants. The successful applicant will become a member of the National Science Foundation Science and Technology Center for Biological Timing (<http://www.cbtt.virginia.edu>), which is located at the University. Applicants should submit curriculum vitae, a summary of past research accomplishments, a description of future research plans and teaching interests, and the names and addresses of three references to: **Circadian Biology Search Committee, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, VA 22903-2477.** Screening of applications will begin immediately. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply and to identify themselves.*

ASSISTANT/ASSOCIATE PROFESSOR DIRECTOR OF THE LABORATORIES

The Section of General Surgery at the University of Chicago invites applications for a faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level to serve as Director of the Laboratories. We are seeking an independent investigator able to conduct and direct high quality basic science research in molecular oncology of gastrointestinal and pancreatic adenocarcinoma.

Qualifications include a Ph.D. degree and completion of a relevant postdoctoral fellowship. The candidate should have evidence of productivity in research with publications in peer-reviewed journals and current independent research funding. Responsibilities include independent basic science research; development of translational research projects with current faculty to complement the clinical programs of the Section of General Surgery; and the overall direction of the research programs of the Section. Please send inquiries and curriculum vitae to: **Fabrizio Michels, M.D., The University of Chicago, Section of General Surgery, 5841 South Maryland Avenue/MC 5094, Chicago, IL 60637.** *The University of Chicago and its Medical Center are Affirmative Action/Equal Opportunity Employers and applications from women and representatives of minority groups are encouraged.*

POSTDOCTORAL POSITION available immediately for NIH-sponsored project to identify the determinants of cell-specific expression of the dopamine transporter. Other active projects focus on molecular pharmacological characterization of dopamine receptors—see <http://www.teleport.com/~nevek/>. Molecular biology experience is essential, as is enthusiasm and a willingness to work hard. Send curriculum vitae and names of three references to: **Dr. Kim Neve, VA Medical Center (151LL), 3710 SW US Veterans Hospital Road, Portland, OR 97201. FAX: 503-721-7839; Email: nevek@teleport.com.**

A **POSTDOCTORAL POSITION** is available for three years on an NIH training grant to study the molecular and cellular biology of glucose transport. See <http://www.mueckler.wustl.edu/> for information on specific research interests of the laboratory. *Candidates must be U.S. citizens or permanent U.S. alien residents and must have had one year or less of previous postdoctoral salary support from the NIH.* Please send curriculum vitae and arrange to have two letters of reference sent to: **Mike Mueckler, Department of Cell Biology and Physiology, Washington University School of Medicine, 660 South Euclid Avenue, Box 8228, St. Louis, MO 63110. Email: mike@cellbio.wustl.edu.**

POSTDOCTORAL POSITION available immediately for molecular biologist with strong background in cloning to study MAP kinases in colonocyte differentiation (*J. Biol. Chem.*, 271:11422-11426, 1996; *CG&D*, 7:587-594, 1996). Salary competitive and based on experience. Send curriculum vitae and the names and telephone numbers of three references to: **Dr. Eileen Friedman, Jones/Rohner Professor of Experimental Pathology, Pathology Department, SUNY Syracuse Health Science Center, 750 East Adams Street, Syracuse, NY 13210.**

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Improving Bodies

Chiron Viagene, Inc., a leader in the development of gene transfer drugs, seeks the following professional.

RESEARCH SCIENTIST GENE THERAPY

This individual will be responsible for the conception, design, development, execution, and interpretation of scientific research related to the development of alphavirus-derived nucleic acid and particle based vectors for human gene transfer. Requires a PhD/MD in a scientific discipline, postdoctoral work and 0-3 years' experience with an emphasis in basic (including pathogenesis studies) and/or molecular virology, and a significant publication record. Selected candidate will have a broad-based knowledge of both DNA and RNA viruses, and possess the necessary skills in which to study them. Knowledge of immunology and human gene therapy desirable, but not required. Excellent communication skills, and the ability to work as a component of a highly collaborative team are very important.

Chiron Viagene offers a comprehensive salary and benefits package. Please send resumes to: CHIRON VIAGENE, INC., HR Dept, Code: 1819, 11055 Roselle Street, San Diego, CA 92121; fax (619) 452-2616. EOE



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TECHNOLOGY
COME TOGETHER,
ANYTHING IS
POSSIBLE.**

**AND EVERYTHING IS
ACHIEVED**

By merging pharmaceutical science with technology, Eli Lilly and Company is creating unprecedented opportunities to better meet the global population's health care needs. While we continue our search for innovative pharmaceuticals, we're also pioneering ways to use technology to improve health care. We're collecting, analyzing and sharing data with the entire health care community in order to help people manage illness and lead healthier, more active lives. And achieving all this, is a dedicated team of technical professionals. Their talents and skills in a variety of technical arenas, keep our \$6+ billion company on the cutting edge.

Lilly
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GENOMICS MOLECULAR/ CELLULAR BIOLOGIST

We are seeking an innovative individual to join an interdisciplinary team focused on the use of genomics technologies for the discovery of novel drug targets. The position will require the ability to initiate and direct a research program aimed at identifying the function of unknown gene products, and understanding their relevance to human diseases. The candidate will also develop cell-based technologies for screening new targets derived from genomics research. The successful candidate will have a Ph.D. in the biological sciences with at least 3 years post-doctoral research experience, and a strong molecular and cellular biology background. The applicant should be expert in the expression of gene products in multiple mammalian cell systems, and have a proven track record in vector design, cell manipulation and the use of molecular and cellular biology techniques to explore gene functions. Experience in viral gene transfer methodologies and/or embryonic stem cell manipulation would be highly desirable. We are especially interested in highly motivated individuals with strong cross-functional expertise who can utilize multiple tools and technologies for the development of innovative therapeutic agents.

We offer an excellent salary and comprehensive benefits. For immediate consideration, please send resume and cover letter by September 15, 1996 to: **Corporate Recruiting, Dept. ADSCMPH08, Lilly Corporate Center, Indianapolis, IN 46285.** We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace.

For other job opportunities, please access our Job Bank at <http://www.lilly.com> or phone our Jobline 1-800-892-9121.

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GLOBAL CAREER OPPORTUNITIES

RESEARCH SCIENTIST FLOW CYTOMETRY AND CONFOCAL MICROSCOPY

The National University Medical Institutes seeks to recruit an individual at Ph.D. level to direct and supervise its core facilities in confocal microscopy and flow cytometry. The successful candidate should preferably have experience with light microscopy, immunofluorescence techniques, multicolour analysis, DNA and bivariate analysis, multiparameter cell sorting, chromosomal and apoptosis studies using flow cytometry. Each core facility is staffed currently by a laboratory technologist. Managerial skills, ability to use a range of software and to develop new applications in flow cytometry and confocal microscopy are advantages. The successful applicant will have the opportunity to develop a research program and to compete for research funding. Salary will be commensurate with qualifications and experience. Interested applicants should submit their curriculum vitae and the names of three referees to: **The Department Head, Molecular Medicine Laboratories, National University Medical Institutes, #02-01 MD11, Clinical Research Centre, Faculty of Medicine, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260. Fax Number: (65) 773-5461.**

CELLULAR ELECTROPHYSIOLOGIST

Pharmacia & Upjohn, a world leader in pharmaceutical research and development, has an immediate opportunity for an investigator to join the Department of Cardiovascular Pharmacology within Discovery Research.

This is your opportunity to participate on multi disciplinary program teams in a drug discovery process involving the identification of novel molecular ion channel targets and the establishment of new model systems to screen and evaluate the therapeutic potential of selected lead compounds.

The selected candidate will be an established cellular electrophysiologist with a background in cardiac, smooth muscle and/or neuronal tissues. Applicants should have experience in extra- and intra-cellular recordings and single channel as well as whole cell configurations of patch clamp recordings in native or cultured cells, and transfected cells. A working knowledge of computer-based data acquisition and analysis is also required. Additional qualifications include a Ph.D. (or equivalent) in pharmacology, physiology, cell biology or related science, a minimum of 2 years postdoctoral experience, and excellent written and oral communication skills.

Pharmacia & Upjohn Company offers a competitive salary, benefits and relocation assistance commensurate with the expected contribution. For confidential consideration please send your resume/CV to: **Pharmacia & Upjohn Company, Corporate Recruiting, Position # 328, 7000 Portage Road, Kalamazoo, MI 49001.** We are an equal opportunity employer with a commitment to workplace diversity. E-mail to: RECRUIT@PWINET.UPJ.COM



Pharmacia & Upjohn

POSITIONS OPEN

POSTDOCTORAL POSITIONS Children's Nutrition Research Center Baylor College of Medicine

The USDA/ARS Children's Nutrition Research Center, Department of Pediatrics, Baylor College of Medicine, is accepting applications from individuals with Ph.D. and M.D. degrees to participate in a wide range of research programs related to nutritional needs of infants, children, and adolescents, as well as pregnant and lactating women. The Center's 30 faculty members direct research areas ranging from whole body macronutrient metabolism to effects of nutrients at molecular and cellular levels. Positions funded by an NIH training grant as well as a limited number of positions funded by other sources are available. For information, contact: **William C. Heird, M.D., Director, Postdoctoral Training Program, Children's Nutrition Research Center, Baylor College of Medicine, 1100 Bates Street, Houston, TX 77030. Telephone: 713-798-7177; FAX: 713-798-7187; Email: wheird@bcm.tmc.edu.**

Baylor College of Medicine is an Equal Access/Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are strongly encouraged to apply.

POSTDOCTORAL POSITION/IMMUNOLOGY Yale University School of Medicine

Ph.D. or M.D./Ph.D. position to study T-B cell collaboration in systemic murine autoimmunity and Fas deficiency. Experience and/or interest in T cell cloning, costimulatory factors, apoptosis, and/or animal models of autoimmunity necessary. Send curriculum vitae, research interests, and three reference letters to: **Joe Craft, M.D., Section of Rheumatology, Department of Internal Medicine, Yale University School of Medicine, Box 208031, 333 Cedar Street, New Haven, CT 06520. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION Regulation of Gene Expression Pathogenic Yeast, Molecular Biology

A POSTDOCTORAL POSITION is available to study the regulatory mechanisms employed by *Candida albicans*, to control expression of morphology-specific genes. Evidence of productivity in projects utilizing prokaryotic molecular biological tools is required. Interested applicants should send a cover letter and curriculum vitae to: **Dr. Paula Sundstrom, Department of Medical Microbiology and Immunology, College of Medicine, The Ohio State University, 333 West 10th Avenue, Columbus, OH 43210. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS MOLECULAR BIOTECHNOLOGY

Two positions are available in the following areas: 1) Molecular evolution of high affinity antibodies from combinatorial libraries displayed on *E. coli* and screened by flow cytometry. 2) Folding and disulfide bond formation in heterologous proteins expressed in bacteria. A Ph.D. degree in molecular biology, biochemistry, or bioengineering with experience in molecular biology is required. Experience in protein chemistry is desirable. Applicants should submit a curriculum vitae and the names of three references to: **Dr. George Georgiou, CPE Building, University of Texas, Austin, TX 78712. Telephone: 512-471-6975; FAX: 512-471-7963.**

POSTDOCTORAL POSITION studying plant/bacterial metabolism in symbiotic nitrogen fixation. Experience in molecular biology and biochemistry preferred; experience in plant/microbial physiology or plant-microbe interactions very useful. Send résumé, brief statement of experience and goals, and names of three references to: **Dr. Michael Kahn, Institute of Biological Chemistry, Washington State University, Pullman, WA 99164-6340. FAX: 509-335-7643; Email: kahn@wsu.edu. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to study mitochondrial calcium regulation in heart. Experience in digital imaging and electrophysiological techniques essential. Please send curriculum vitae, a description of research experience, and names of three references to: **Shey-Shing Sheu, Ph.D., Department of Pharmacology and Physiology, University of Rochester Medical Center, Box 711, Rochester, NY 14642. FAX: 716-244-9283; Email: sheus@pharmacol.rochester.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION NATIONAL INSTITUTES OF HEALTH National Institute of Neurological Disorders and Stroke Laboratory of Adaptive Systems

A position is available for a **POSTDOCTORAL FELLOW** (U.S. citizen, permanent resident, or non-U.S. citizen) who has a Ph.D./M.D. or equivalent degree with expertise in behavioral neuroscience with an interest in behavioral learning and memory and experience in biophysical recording techniques such as current clamp, patch clamp, and/or two electrode voltage clamp. Successful applicant will focus on identifying the neural substrates of classical conditioning in a vertebrate model system. The position involves working in a small group that combines behavioral with *in vivo* and *in vitro* electrophysiological experiments. The appointment will be for two years with a salary range between \$25,000 and \$38,000 per year. Please submit a curriculum vitae, statement of research interests, and three letters of reference by September 28, 1996 to: **Dr. Bernard Schreurs, Laboratory of Adaptive Systems, NINDS, NIH, Building 36/Room B205, Bethesda, MD 20892. Telephone: 301-496-3906. NIH is an Equal Opportunity Employer.**

POSTDOCTORAL/TECHNOLOGIST

Positions available in the well-funded laboratory involved in molecular characterization of the new cancer genes. Postdoctoral candidate should be less than three years after obtaining Ph.D. in molecular biology and have documented experience with PCR and gene cloning. Experience with retroviral genomes preferred. Knowledge of the GenBank programs required. Technologist (B.S. or M.S.) should have previous experience with molecular biology techniques.

Send curriculum vitae and three references to: **Dr. Eva Rakowicz-Szulczynska, Associate Professor, Department of OB/GYN, University of Nebraska Eppley Cancer Center, 600 South 42nd Street, Omaha, NE 68198-3255. Telephone: 402-559-6157; FAX: 402-559-8112.**

POSTDOCTORAL RESEARCH SCIENTIST The George Washington University Medical Center Department of Anatomy and Cell Biology

Available starting August 15, 1996 to study cell:cell and cell:substrate interactions during corneal wound healing and eye development. Applicants should have a strong background in cellular and molecular biology. A Ph.D. in the biomedical sciences is required. Interested parties should send curriculum vitae and two references to: **Dr. Mary Ann Stepp, Department of Anatomy, 2300 I Street NW, Ross Hall, Washington, DC 20037. The George Washington University Medical Center is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL RESEARCH position in Cellular and Molecular Biology to work in prostate carcinogenesis. Experience in cell culture and molecular biology techniques essential. Apply with curriculum vitae to: **Ms. Wanda Malone, Institute of Chemical Toxicology, Wayne State University, 2727 Second Avenue, Room 4000, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL—A postdoctoral position is available immediately for an individual interested in murine retroviral pathogenesis or utilization of the mouse as a model for breast cancer metastasis. Applicants should have a Ph.D./M.D. or equivalent experience in molecular biology. Send curriculum vitae and the names of three references to: **Dr. Kent Hunter, c/o Human Resources, The Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Email: KW_Hunter@fccc.edu. Equal Opportunity Employer.**

A **POSTDOCTORAL POSITION** is available immediately to identify and characterize proteins that interact with the Ab receptor during ligand-mediated signaling. Candidates should have a Ph.D. with a demonstrated background in molecular biology. Send curriculum vitae and names of three references to: **Dr. Cornelis Elferink, Institute of Chemical Toxicology, Wayne State University, 2727 Second Avenue, Room 4000, Detroit, MI 48201-2254. Wayne State University is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION PHARMACOLOGY/BIOCHEMISTRY

A **POSTDOCTORAL POSITION** is available immediately in the laboratories of **Drs. M. Clagett-Dame, R. Peterson, and H. F. DeLuca** to study the aryl hydrocarbon receptor and its ligands. The position requires a Ph.D. with strong training in biochemistry and molecular biology. Experience in recombinant techniques for expressing proteins is desirable. FAX or Email a curriculum vitae and the names of three references to: **M. Clagett-Dame, School of Pharmacy, University of Wisconsin-Madison, 425 North Charter Street, Madison, WI 53706. FAX: 608-262-3397; Email: mcd@pharmacy.wisc.edu. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION Washington University School of Medicine

Available immediately to study the molecular and genetic mechanisms of iron and copper metabolism in human neurodegenerative diseases (*PNAS*, 92:2539, 1995; *Hum. Mol. Gen.*, 5:81, 1996; *J. Clin. Invest.*, 98:207, 1996). Experience in cell and molecular biology required. Send curriculum vitae and names of references to: **Dr. Jonathan D. Gitlin, Department of Pediatrics, Washington University School of Medicine, St. Louis Children's Hospital, 1 Children's Place, St. Louis, MO 63110. Email: gitlin@kids1.wustl.edu. Washington University is an Affirmative Action/Equal Opportunity Employer.**

MOLECULAR PARASITOLOGIST

NIH-funded **POSTDOCTORAL RESEARCH** position available to study the aspartic proteinases of human malaria parasites. Research goals are to compare the functions of the various plasmepsins and to characterize their role in the parasite life cycle. Background in parasite/tissue culture, proteinase purification/enzymology, molecular biology, or immunoelectron microscopy desirable. Send curriculum vitae, brief summary of research interests/career goals, and names of three references to: **Dr. John B. Dame, Department of Pathobiology, University of Florida, Gainesville, FL 32611-0880. Email: dame@icbr.ifas.ufl.edu; FAX: 352-392-9704.**

POSTDOCTORAL FELLOWS

Positions available. Endocrine Unit, Massachusetts General Hospital/Harvard Medical School to study:

- 1) Molecular basis for bone- and cartilage-specific expression of the PTH/PTHrP receptor gene.
- 2) Structural features that determine CRF receptor binding and signaling properties.
- 3) Functional role of post-transcriptional modification of the PTH/PTHrP receptor. Experience with molecular biology and/or protein chemistry desirable. Send curriculum vitae to: **Dr. A. Samra, Endocrine Unit, Massachusetts General Hospital, Boston, MA 02114. FAX: 617-726-1703. Email: Samra@helix.mgh.harvard.edu.**

POSTDOCTORAL POSITION in immunoreceptor signaling group, affiliated with NIH-funded cancer and asthma centers, to study human IgE receptor-mediated signal transduction. Ph.D. in immunology, cell biology, or biochemistry/molecular biology required. Experience in the analysis of receptor-mediated signaling pathways using genetic, biochemical, and/or video microscopy techniques, or in human basophil/mast cell biology, desired. Send curriculum vitae, names of three references, and statement of research interest by September 30, 1996 to: **J. M. Oliver, Cell Pathology Laboratory, Surge Building, University of New Mexico Health Sciences Center, Albuquerque, NM 87131. FAX: 505-277-2999; Email: jmo@rapunzel.unm.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL ASSOCIATE(S) to determine the mechanisms regulating intracellular Ca^{2+} in normal and diseased tissues. Projects include the study of the skeletal muscle Ca^{2+} release channel/ryanodine receptors in malignant hyperthermia (*Physiol. Reviews*, 76:537-592, 1996) and the lens of the eye in cataract (*J. Cell Science*, 109:355-365, 1996). Candidates must have the Ph.D. by start date with experience and training in cell biology and electrophysiology. Deadline: June 30, 1997. Inquiries to: **Dr. Charles F. Louis, Department of Veterinary Pathobiology, University of Minnesota, 1988 Fitch Avenue—Room 295, St. Paul, MN 55108. Telephone: 612-624-4202. The University of Minnesota is an Equal Opportunity Educator and Employer.**

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DEPARTMENT OF MOLECULAR BIOMEDICAL SCIENCES AND INSTITUTE OF BIOTECHNOLOGY

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO

The Department/Institute invites applications for two tenure-track faculty positions at all levels. While outstanding researchers in all areas of eukaryotic molecular and cellular biology will be considered, expertise in the following fields is of particular interest: extracellular matrix, adhesion molecules, growth factors and receptors, cancer genetics, and signal transduction. Applicants should have a Ph.D. or M.D. degree with sufficient postdoctoral experience. The positions provide exceptionally competitive salaries, generous start-up funds, and laboratory space in a highly interactive and modern research environment. The successful applicants will be active faculty members in the recently established Graduate Program in Molecular Medicine, which currently has forty-one graduate students.

Interested individuals should send a curriculum vitae, a statement of research accomplishments and objectives, reprints of recent articles, and the names and addresses of three references preferably by October 1, 1996 to:

Dr. Paul D. Gardner
The University of Texas Health Science Center
at San Antonio
15355 Lambda Drive
San Antonio, Texas 78245-3207

The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.



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

ALSAC • Danny Thomas, Founder

POSTDOCTORAL POSITION MOLECULAR ONCOGENESIS

**St. Jude Children's Research Hospital
Departments of Pathology and
Tumor Cell Biology**

NIH-funded postdoctoral positions are available immediately to investigate the role of the AML1/CBFB transcription factor complex in normal hematopoiesis and leukemia. Studies will focus on defining the biologic function of AML1 in the establishment of fetal liver-derived hematopoiesis, and on investigating the mechanisms responsible for cellular transformation by the t(8;21) and t(12;21)-encoded AML1 chimeric products. These studies will be performed in a highly interactive environment that is housed in a state-of-the-art facility. Qualified candidates should possess either a Ph.D. and/or M.D. and have prior experience in molecular biology. Interested applicants should send their curriculum vitae and the names, addresses and phone numbers of three references to:

**Dr. James R. Downing, Department of Pathology,
St. Jude Children's Research Hospital,
332 N. Lauderdale, Memphis, TN 38105.**

*Women and minorities are especially encouraged to apply.
An equal opportunity/affirmative action employer.*



Osiris Therapeutics, Inc. Regenerative Tissue Therapy

Osiris Therapeutics, Inc. has positions immediately available offering candidates exciting opportunities to develop novel therapeutic products for the regeneration of diseased or injured tissue using Osiris' proprietary technology with Mesenchymal Stem Cells (MSCs). The MSC is a multi-lineage progenitor cell that holds enormous potential for use in Regenerative Tissue Therapy. Osiris has rapidly growing programs in both orthopaedics and cancer therapy.

Molecular Biology Research: (JC: TJC) Postdoctoral position available to investigate the transcriptional regulation of newly identified genes involved in osteogenic differentiation. Research experience in molecular biology required.

Antibody Production: (JC: JMM) Position requires experience in all aspects of monoclonal antibody production and characterization to generate novel antibodies to both progenitor and differentiated MSCs.

Cell Processing: (JC: SC) Various positions requiring experience in the isolation, culture expansion, formulation, and analysis of primary cells for clinical application. Experience in the areas of immunomagnetic cell selection, flow cytometry, bioreactor development, cryopreservation, and media development are required.

Quality Assurance and Quality Control: (JC: SC) Positions require experience in the areas of auditing, documentation, assay and validation of materials, processes and products used in cellular therapy.

Biomaterial Formulation: (JC: SC) Position requires experience in the formulation and development of biocompatible matrices and supports for the clinical delivery and application of cellular products.

Osiris Therapeutics, an equal opportunity employer located in Baltimore, Maryland, offers a competitive salary and benefit package. Senior positions require Ph.D. and minimum 5 years of industry experience. Send resume and salary requirements to **Human Resources Mgr., Job Code (from above), Osiris Therapeutics, Inc., 2001 Aliceanna Street, Baltimore, MD 21231-2001.**

MICROBIOLOGIST

The University of Chicago seeks an accomplished and established microbiologist to lead a new multi-disciplinary program in microbiological sciences within the Department of Pathology. A program constituted of 6-8 newly recruited investigators in the microbiological sciences is envisaged. Applicants should be active, internationally recognized investigators in the molecular pathogenesis of microbial, parasitic and viral diseases and be willing to participate in the education of medical and graduate students. The successful candidate will be expected to frame and implement the program to be developed. Salary is competitive and negotiable. Excellent benefit package included. Send curriculum vitae, names of five references and a brief research description to: Godfrey S. Getz, M.D., Ph.D., University of Chicago, Department of Pathology MC 3083, 5841 S. Maryland Ave., Chicago, IL 60637-1470.



**THE UNIVERSITY
OF CHICAGO**

Affirmative Action/Equal Opportunity Employer

Head, Department of Preventive Medicine and Environmental Health

The University of Iowa

The Search Committee seeks applications and nominations for the position of Professor and Head of the Department of Preventive Medicine and Environmental Health at the University of Iowa College of Medicine.

As the executive officer of the Department of Preventive Medicine and Environmental Health, the Department Head is responsible for directing the Department's programs in teaching, service, and research. The Department Head must provide leadership in educational and research programs by guiding assignments of faculty, recruiting new faculty, and mentoring faculty and students. The Department Head will undertake the development of a new program leading to a Master's degree in public health. The Graduate Program in Hospital and Health Administration will be combined with the Department of Preventive Medicine and Environmental Health to facilitate the development of an accredited Masters of Public Health Program. Additional resources necessary for the Masters of Public Health Program will be made available through the College of Medicine. The individual will be expected to enhance the quality and breadth of research programs within the Department. The executive director of the Department would also be expected to serve on committees of the College of Medicine and the University and to support the goals and strategic plans of both the Department and the University. The Department Head will be expected to have administrative experience to manage departmental resources including finances, personnel, equipment, and assigned space. Programs in teaching, research, and administrative and service activities will lead to both short-term and long-term strategic planning, which should be guided by the Department Head. The Department Head will be expected to interact with colleagues and departmental employees in a supportive and constructive manner to foster an environment in which excellence in teaching, service, and scholarship can flourish.

The University of Iowa College of Medicine is among the top 10 public medical schools in the nation in National Institutes of Health funding and is part of a major research university. Furthermore, the Department of Preventive Medicine and Environmental Health is one of the leading research departments of preventive medicine in the nation. Nurturing and developing the research programs of the Department will be a major responsibility of the Department Head.

Candidates should possess a Ph.D. or M.D. degree or equivalent and have a distinguished record of teaching, research, and service. The departmental executive should have demonstrated ability to meet all of the job expectations outlined above and have a commitment to increasing diversity among students, staff, and faculty.

The Search Committee will accept nominations and applications until the position is filled. Submission should include a letter of application; curriculum vitae; and the names, addresses, and telephone numbers of three or more references. Please send nominations or applications to:

Robert G. Robinson, M.D., Chair, Preventive Medicine and Environmental Health Search Committee, Office of the Dean, The University of Iowa College of Medicine, 200 CMAB, Iowa City, IA 52242

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

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October 28 and 29, 1996

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William Isaacs (Johns Hopkins)

Tyler Jacks (MIT)

Wen-Hwa Lee (U. Texas)

Gary Nabel (U. Michigan)

Carol Prives (Columbia)

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Raymond White (U. Utah)

Richard Wooster (Sanger Centre)

COLLOQUIUM COORDINATOR

Bayar Thimmapaya, Ph.D. (Northwestern)

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Applications are being accepted from applied scientists and engineers in the non-Russian countries of the former Soviet Union for grants of up to \$2,500 for short-term travel to the United States. The purpose of the travel must be to attend meetings of industry associations or scientific and engineering societies and also to meet with U.S. scientists to initiate research collaboration.

Application deadline: December 31, 1996

Travel must be completed by April 1, 1997

For eligibility guidelines and application materials,
please contact:

Travel Grant Program

U.S. Civilian Research & Development Foundation

1800 North Kent Street, Suite 1106

Arlington, VA 22209 USA

Tel: 703-526-9720 • Fax: 703-526-9721

E-mail: information@crdf.org

WWW: <http://www.crdf.inter.net>

MEETINGS

Differential Display and Related Techniques for Gene Discovery

October 6 - 9, 1996



Organizers:

Peng Liang, Vanderbilt Cancer Center
Harold Robertson, Dalhousie University

Topics Include:

- Differential Methodology
- Differential Display: Past, Present and Future • RAP-PCR • Differential Display Using Agarose Gel • Fluorescence Differential Display • Comparative Studies On Electronic Subtraction, Subtractive Hybridization And Differential Display • Direct Sequencing Of Differential Display PCR Products • Combining Differential Display With Differential Screening • Rapid Confirmation Of Cloned cDNA Probes Representing Differentially Expressed Genes
- Cloning Inducible Genes By Differential Display
- Cloning Differentially Expressed Genes From Tissues
- Cloning Differentially Expressed Genes In Cancer
- Cloning Family-Specific Genes By Differential Display

Invited Speakers Include:

Joseph Babity, Dalhousie University
Mark G. Erlander, R.W. Johnson Research Inst., San Diego, CA Giora Feuerstein, Smithkline Beecham, King of Prussia, PA
Steen Gammeltoft, Joslin Diabetes Center, Brookline, MA Charles J. Gomer, Children's Hospital Los Angeles Jorge Guimaraes, DNAX Research Institute, Palo Alto, CA
Takashi Ito, University of Tokyo, Japan Chandrashekhar Joshi, Michigan Technological University Sean McCarthy, Millenium Pharmaceuticals, MA
Michael McClelland, Sidney Kimmel Cancer Center, San Diego, CA Arthur Pardee, Harvard Medical School Brian Perry, Genomx Inc, Foster City, CA
Mary Russell, Harvard School of Public Health Ruth Sager, Harvard Medical School Gunter Theissen, Max-Planck-Institute, Cologne, Germany Sherman Weissman, Yale University School of Medicine
Tadeusz Wieloch, Lund University, Sweden Jeffrey Winkles, American Red Cross

Abstract Deadline:
August 23, 1996



**Cold Spring Harbor
Laboratory**

Meetings & Courses Office
1 Bungtown Road
Cold Spring Harbor, NY 11724-2213
email: meetings@csih.org fax: (516) 367-8845
<http://www.cshl.org/meetings/>
phone: (516) 367-8346



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Los Alamos National Laboratory is the birthplace of many of the technologies which drive the technical and economic advancement of our country. At Los Alamos, this starts with research into the basic sciences and engineering disciplines and extends into a myriad of innovative programs and projects.

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Staff Member

We are seeking a scientist to join the staff at the Manuel Lujan Jr. Neutron Scattering Center, a high-power pulsed source of spallation neutrons. The successful candidate will be an energetic, creative individual who can contribute to existing programs and establish new and independent neutron scattering research programs in areas of materials science, condensed matter physics or chemistry. A record of scientific accomplishments and extensive experience in x-ray/neutron scattering are required. The position requires a Ph.D. in condensed matter science, solid state physics, materials science, or chemistry or related field. Candidates with the ability to obtain a Q-clearance are preferred.

To formally apply for this position, interested candidates should forward a resume to Human Resources Division, 961694-MLNSC 96125, Los Alamos National Laboratory, MS P286, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Individuals with disabilities needing reasonable accommodation should call (505) 667-8622. A Teletype Device for the Deaf (TDD) is available by calling (505) 665-5357. Los Alamos National Laboratory is operated by the University of California for the U.S. Department of Energy.

Los Alamos
NATIONAL LABORATORY

Roche

MOLECULAR BIOLOGY

Ph.D. SCIENTIST

The challenges of the next century have already brought change and innovation to Hoffmann-La Roche, a world leader in developing, manufacturing, and marketing pharmaceuticals. We're looking for a protein expression expert to join our established, multi-disciplinary team doing collaborative research on structure-based drug design.

This new scientist will prepare expression constructs for the research-scale production of proteins that will be used in structural determinations by X-ray Crystallography and NMR. In concert with other scientists, the individual will optimize the proteins for these efforts by including affinity tags, selecting appropriate protein domains, investigating species variants, etc. Labeled proteins will also be prepared which incorporate heavy atoms such as selenomethionine and stable, NMR-active nuclei. Most proteins are expressed in bacterial or baculovirus systems, but yeast and mammalian systems are also investigated. This scientist will help plan research in project teams. With the exception of proprietary items, publication of research results is strongly encouraged.

The qualified candidate will possess a Ph.D. in Molecular Biology or Biochemistry with 2 years of postdoctoral studies (or equivalent experience). Experience with a variety of protein expression systems is strongly preferred. Protein purification experience is also desirable.

We offer an attractive salary and benefits package in a state-of-the-art work environment. For consideration, please send your resume with salary requirements to: Ms. Stella M. Strazdas, Department SS476VM, Hoffmann-La Roche, Nutley, New Jersey 07110-1199. No phone calls please. PRINCIPALS ONLY. We are an equal opportunity employer.

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EARTH RESOURCES ENGINEERING COLUMBIA UNIVERSITY

Columbia University is searching for a highly qualified and internationally known Earth resources (minerals, energy, water) engineer who has demonstrated the highest level of academic and industrial achievement. The candidate should have a global vision of the sustainable development and responsibilities of the Earth resources industries in the 21st century. The candidate should be capable of broad leadership in the industrial ecology aspects of resource identification, extraction, and use, including the application of mineral resources engineering to the solution of environmental problems. The promotion of interdisciplinary links within the University and the development of industrial collaboration will be expected and it will be necessary to attract both public and private funds. The successful candidate will occupy the historic Henry Krumb Chair of Mining.

Persons interested in this position or wishing to nominate qualified individuals please write to:

Dean Zvi Galil

**School of Engineering and Applied Science
Columbia University**

500 West 120th St., Mail Code 3841

New York, NY 10027

Tel: (212) 854-2993; dw61@columbia.edu

Applications should be submitted prior to September 30, 1996. *Columbia University is an equal opportunity/affirmative action employer.*

Chairperson, Veterinary Biosciences.

The Ohio State University College of Veterinary Medicine invites applications and nominations for Chairperson of the Department of Veterinary Biosciences. The Department has 28 faculty representing pathology, clinical pathology, microbiology, immunology, anatomy, cell biology, physiology, toxicology, biochemistry, and pharmacology. The Department has major extramurally funded research in virology/retrovirology, bacteriology, rickettsiology, cancer, endocrinology, physiology, and toxicology. Faculty teach basic and applied team-taught core and elective courses across the 4-year professional curriculum. The faculty provide diagnostic support to clinical teaching programs of the Veterinary Teaching Hospital. A candidate for the Chairperson should be an established scientist in veterinary medical research with a distinguished record of scholarly achievement. The candidate must have a strong commitment to leadership in veterinary medical education and experience in teaching graduate, professional students and in postprofessional specialty training. Candidates with D.V.M. (or equivalent) and Ph.D. degrees are desired but qualified candidates holding the Ph.D. are encouraged to apply. It is desirable that the candidate have experience in a department with clinical service responsibilities. Applicants should submit a letter of interest, current curriculum vitae, and names of 5 references to: **Dr. Kent H. Hoblet, Chair of Search Committee, Department of Veterinary Preventive Medicine, The Ohio State University, 1900 Coffey Road, Columbus, Ohio 43210-1092.** Applications will be received until September 30, 1996, or until an acceptable candidate is identified. The College of Veterinary Medicine is an integral part of the most comprehensive health sciences center in America with the Colleges of Dentistry, Medicine, Nursing, Optometry, Pharmacy, University Hospitals, and the James Cancer Hospital and Research Institute.

The Ohio State University is an affirmative action/ equal opportunity employer. Women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.

POSITIONS OPEN

Drug Discovery Enterprises Inc. (DDE), a rapidly expanding R&D company, has the following positions available: **POSTDOCTORAL ASSOCIATES:** Requires M.D., Ph.D., or equivalent degree. **STAFF SCIENTISTS:** Requires at least three years of postdoctoral experience. Individuals having experience with transgenic mice, targeted gene disruption, and knockout mice are especially encouraged to apply. Send curriculum vitae, references, and two to three letters of recommendation to: **DDE, P.O. Box 8178, 2685 Patton Road, St. Paul, MN 55108.**

POSTDOCTORAL POSITION available immediately for neuroscientist to study effect of abused drugs on CNS gene expression and neurotransmitter release. Opportunity to learn quantitative *in situ* hybridization and microdialysis. Familiarity with biochemical neuroanatomy/pharmacology of limbic/basal ganglia systems, molecular techniques, small animal neurosurgery, and HPLC desired. Salary commensurate with experience and NIH guidelines. Send curriculum vitae and names of three references by September 15, 1996 to: **Jacqueline F. McGinty, Ph.D., Department of Anatomy and Cell Biology, East Carolina University, School of Medicine, Greenville, NC 27858-4354.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIP in Behavioral Neuroscience. Laboratory focuses on parental behavior and sexual dimorphism, using prairie voles and human tissue. Strong anatomical background needed. Send résumé and statement of interests to: **Dr. Brian Kirkpatrick, MPRC, P.O. Box 21247, Baltimore, MD 21228 U.S.A. FAX: 410-788-3837.** *The University of Maryland at Baltimore is an Affirmative Action/Equal Employment Opportunity/ADA Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

Available immediately to study the cell biology of G proteins. Successful applicants should have background in molecular biology and biochemistry. Please send curriculum vitae to: **Dr. B. Denker, Thorn 628, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. Telephone: 617-732-5809; FAX: 617-732-6392; Email: denker@bustoff.bwh.harvard.edu.** *Women and minorities are encouraged to apply. Brigham and Women's Hospital/Harvard Medical School is an Equal Opportunity Employer.*

APPLICATION SCIENTIST

Use knowledge of chemistry, applied molecular biology, and related computer software to provide tech support to biotech researchers in use of software for computer aided molecular design and bioinformatics. \$50,000 per year. Required: Ph.D. in chemistry or molecular biology; one year experience in job offered, or, in position involving in-depth and technical use of software used for molecular modeling. Attend biotech seminars, keep up with technical developments, evaluate user feedback to suggest program changes. Jobsite and interview: Campbell, California. Send ad and résumé to: **Job number JP6031122, P.O. Box 269065, Sacramento, CA 95826-9065.**

POSTDOCTORAL POSITION

This laboratory has identified GRIP1, a novel transcriptional co-activator for steroid receptors (*PNAS*, 93:4948-4952, 1996). The AF-2 transactivation domain of steroid receptors is inactive in yeast; expression of GRIP1 restores transactivation activity. This is an exciting opportunity to study transcriptional activation by steroid receptors and co-activators in yeast and mammalian cells, and *in vitro*. Applicants with a strong background in molecular/cell biology should submit statement of interest, curriculum vitae, and three references to: **Michael R. Stallcup, Ph.D., Department of Pathology, HMR 301, University of Southern California, 2011 Zonal Avenue, Los Angeles, CA 90033.**

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION for research on thrombin-fibrinogen reaction. Experience in recombinant DNA methodology and protein chemistry required.

Send résumé and three letters of recommendation to: **Prof. H. A. Scheraga, Baker Laboratory of Chemistry, Cornell University, Ithaca, NY 14853-1301. FAX: 607-254-4700; Email: has5@cornell.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION

VASCULAR BIOLOGY CARDIOLOGY DIVISION

Vanderbilt University Medical Center

A **POSTDOCTORAL POSITION** is available to study the role of the mammalian fibrinolytic system in cardiovascular disease. In this laboratory, a multidisciplinary approach is applied to characterize the role of hormones (angiotensin and estrogen) on endothelial cell gene expression and fibrinolytic regulation. Experience and interest in molecular biology and biochemistry is required. Please send curriculum vitae and three letters of reference to: **Douglas E. Vaughan, M.D., Associate Professor of Medicine and Pharmacology, Cardiology Division, Vanderbilt University Medical Center, MRB II Room 315, Nashville, TN 37232. Telephone: 615-936-1720; FAX: 615-936-1872.**

UNIVERSITY OF WASHINGTON ASSISTANT/ASSOCIATE PROFESSOR OF MEDICINE

The Division of Metabolism, Endocrinology and Nutrition at the University of Washington is recruiting a full-time **FACULTY** member at the level of assistant or associate professor. The closing date for application is September 23, 1996. Appointment at the associate professor level requires outstanding publications and peer reviewed funding. The successful candidate must have an M.D., M.D./Ph.D. or Ph.D., and a strong background in molecular biology. Preferred areas of interest include diabetes, obesity, lipids and atherosclerosis, and reproductive endocrinology. Clinical work is possible. The successful candidate will train postdoctoral fellows and participate in the Division teaching.

Send your curriculum vitae and a brief summary of your research activities to: **Search Committee Chair, Professor Åke Lernmark, University of Washington, Department of Medicine, Box 357710, Seattle, WA 98195-7710.** *The University of Washington is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL FELLOWSHIP: An NIH-supported position is available for fall 1996 to study the regulation of mammalian organogenesis. Systems under study include skin (*PNAS*, 91:1133, 1994), mammary gland (*Development*, 121:3539, 1995), endochondral bone (*PNAS*, in press), tooth, and lung development. Send curriculum vitae, summary of relevant experience, and the names of three references to: **William Philbrick, Ph.D., Yale University School of Medicine, Box 208020, New Haven, CT 06520.** *Yale University is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION Neuroscience

Applications are invited for a **POSTDOCTORAL FELLOWSHIP** available immediately to study molecular aspects of the chemical coding of neurotransmission, including regulation of genes encoding vesicular neurotransmitter transporters and secretory proteins, and their intracellular targeting and function. Candidates must have obtained the Ph.D. or M.D. degree within the last five years, and must have laboratory experience in molecular biology and background in neuroscience or developmental biology. Send curriculum vitae and three letters of recommendation to: **Lee Eiden, Ph.D., Section on Molecular Neuroscience, Laboratory of Cell Biology, Building 36, Room 3A-17, NIMH, NIH, Bethesda, MD 20892-4090. FAX: 301-402-1748; Email: eido@codon.nih.gov.** *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION at Columbia University's Health Sciences campus for M.D., Ph.D., or equivalent degree to study biochemical mechanisms of actions of agents that affect bone cell function. Individual must have experience in study of signal transduction systems, RIA, protein purification and isolation, Western and Northern blot techniques, FPLC and HPLC, as well as tissue culture. Send curriculum vitae and reference list to: **Dr. Stephen A. Morris, Department of Medicine, College of Physicians and Surgeons, Columbia University, P&S Box 90, 630 West 168th Street, New York, NY 10032.** *Columbia University takes Affirmative Action to ensure Equal Opportunity. We are particularly interested in applications from women and minorities.*

**Faculty Position in Climate and Atmospheric Sciences
SCRIPPS INSTITUTION OF OCEANOGRAPHY
UNIVERSITY OF CALIFORNIA, SAN DIEGO**

Scripps Institution of Oceanography invites applications for an Assistant, Associate or Full Professor (tenure track or tenured) faculty position in fields related to the physical or dynamical or chemical aspects of climate and atmospheric sciences. The successful applicant will have the opportunity to join the Climate Sciences Curricular Group, made up of a broad range of Earth scientists who carry out interdisciplinary teaching and research. Candidates must have demonstrated research experience in an appropriate area. Examples of relevant specialties would include, but not be limited to, the following: atmospheric dynamics, ranging from the mesoscale to the general circulation; air-sea interactions; coupled ocean-atmosphere modeling; and climate variability on interannual and longer time scales. Preference will be given to candidates able to establish a research program in an interdisciplinary environment that includes work on atmospheric chemistry, geochemistry, the physical climate system, paleoclimatology, atmospheric dynamics and physics, global climate modeling and biological and physical oceanography.

Rank and salary will be commensurate with qualifications and experience based on the UC pay scale. Candidates must have a Ph.D. or equivalent degree. The position will involve teaching and the supervision and support of graduate students, and the development of research programs supported by extramural funds. Associate and Full professorial candidates must show evidence of a strong research record; Assistant-level candidates will be expected to show evidence of their potential through a publication record appropriate to their experience. Closing date for applications: November 1, 1996. Send letter of application including description of research interests, list of publications, resume of teaching experience, and names/addresses of five referees to: **Chair, Climate Search Committee, SIO Graduate Department, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0208.** *UCSD is an Equal Opportunity/Affirmative Action Employer.*

PARADIGM BIOSCIENCES, INC.

Paradigm Biosciences, Inc., founded in 1991, is dedicated to the research and development of certain steroid hormones in acute and chronic inflammatory diseases. As a growing company, we now wish to recruit two Senior Research Scientists in the areas of Biochemistry and Cell Biology.

Primary responsibilities of these laboratory positions entail development of sound experimental methods to pursue the mechanism of action of these steroid hormone ligands and their role in the regulation of inflammatory disease. Technical expertise in membrane biology, receptor-mediated signaling, calcium-dependent second messengers, protein biochemistry, and molecular biology are required.

These positions require candidates with a Ph.D. and at least 2 years of experience in biochemistry, cell biology, and/or molecular biology. Candidates familiar with interactions between inflammatory cells and host tissue will be given preference. Other requirements are strong oral and written communication skills and ability to work independently with minimal supervision and within a small interdisciplinary team.

In addition to generous stock options, Paradigm Biosciences offers a competitive compensation and benefits package, in a highly stimulating interactive environment. Please send or fax a letter of interest specifying position and credentials, and a brief summary of research accomplishments, along with a complete CV and the names and addresses of three professional references, to:

**Vice President of Research
Paradigm Biosciences, Inc.
2401 Foothill Drive
Salt Lake City, UT 84109
Fax: (801) 464-6116**

**MICHIGAN STATE
UNIVERSITY**

**Vice President for Research & Graduate Studies
MICHIGAN STATE UNIVERSITY**

Michigan State University invites applications and nominations for the position of Vice President for Research and Graduate Studies. The Vice President (VP) reports to the President and provides leadership for the university's research programs. Major responsibilities of the VP include: advising the President and the Provost about research policy; cultivating public and private research funding; identifying opportunities for interdisciplinary collaboration within and outside the university; promoting the University's research and graduate programs to outside constituents; and working closely with the Provost and Dean of the Graduate School to enhance graduate education.

The VP also fosters integration between education and research at MSU; assists the public, industry, and others to secure access to university research expertise; works closely with the Office of Intellectual Property and the MSU Foundation in the commercialization of MSU intellectual property; and administers policies that ensure scientific integrity.

Michigan State University is a comprehensive graduate research university and a member of the Association of American Universities and the National Association of Land Grant Colleges and Universities. MSU has 14 colleges and a total enrollment of approximately 40,000 students, including 7,500 graduate and professional students. Currently MSU receives approximately \$200 million annually in external grant and contract awards.

Candidates must have appropriate scholarly credentials for appointment as a tenured professor and administrative experience at a comprehensive institution. They must be supportive of equal opportunity and affirmative efforts to increase the diversity of the graduate/professional student body.

Applications and nominations should be sent to **Dr. N. Edward Robinson, Matilda R. Wilson Professor, Chairperson, Vice President for Research and Graduate Studies Search Advisory Committee, 450 Administration Building, Michigan State University, East Lansing, MI 48824.** The committee will begin formal review of applications in mid-October and will continue until a candidate is selected. *Women and minorities are encouraged to apply. Disabled persons have the right to request and receive reasonable accommodation.*

**DIRECTOR, BIOLOGICAL AND BIOMEDICAL
SCIENCE AND TECHNOLOGY DIVISION**

The Office of Naval Research (ONR) is seeking an outstanding individual to serve in this Civil Service position in the Senior Executive Service (SES). Salary range is \$94,800 to \$115,700 (plus locality pay) per year, depending on qualifications. In addition to salary, career SES appointees are eligible to compete for performance awards and bonuses. Filling of this position is subject to position allocation availability.

The Director, Biological and Biomedical Science and Technology Division, is a key position in science and technology management in the Department of the Navy (DON) and the Department of Defense (DOD). The incumbent is responsible for managing and directing extensive activities in fostering, developing, administering, and executing an integrated program of basic research, applied research, and advanced technology development involving a wide range of life sciences. Candidates must have substantial research experience in an area of biological sciences, including a Ph.D. or equivalent education and experience in biological or related chemical sciences and recent experience in management of scientific research or technology development programs in the biological sciences.

To request a copy of the vacancy announcement and supplemental forms, call (703) 696-0972 or our TDD (Telecommunication Device for the Deaf) at (703) 696-6357. For additional information on applying for the position, please contact Ms. R. Perry at (703) 696-4587. For technical information concerning this position, applicants may call Dr. M. Marron at (703) 696-4038. Applications will be accepted through 10/04/96 and must be received by that date. Interested persons should submit their application and supplemental forms to: **OFFICE OF NAVAL RESEARCH, Satellite Human Resources Office, Attn: Announcement #96-19/SCI, 800 North Quincy Street, Arlington, VA 22217-5660.**



ONR IS AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER AND PROMOTES DIVERSITY IN THE WORKPLACE. WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY.

POSITIONS OPEN

FORMULATIONS

MICROBIOLOGICAL ASSOCIATES (MA) is a world leader in the biological safety evaluation of pharmaceuticals and biopharmaceuticals. As part of our global expansion of services, we have created a new position for an individual to help us develop a commercial contract formulations business. The ideal candidate will have a Ph.D. in biochemistry or the pharmaceutical sciences and three to four years of industry experience in protein formulations or other small molecules. The position will require strong problem-solving skills and communication skills and demonstrated expertise in the use of relevant analytical instruments. Experience in a GMP-compliant lab a plus. We seek enthusiastic team players and offer an excellent compensation package including individual performance and profit sharing bonuses and a matching 401(k) program. Forward a résumé with salary requirements to: **Human Resources Department, Microbiological Associates, 9900 Blackwell Road, Rockville, MD 20850. FAX: 301-738-1036. Equal Opportunity Employer/Minorities/Female/Disabled/Veterans.**

RESEARCH SCIENTIST: Develop new products for use as research reagents in cloning vectors (bacteriophage and plasmid), expression systems, expression vectors, reporter vectors, plant molecular biology; maintain, update, and extend a collection of vector DNA sequences; answer technical questions from customers. Minimum Ph.D. in genetics, molecular biology, or related field plus one year of experience in job offered. Experience must include reporters of gene expression and localization such as Green Fluorescence Protein, Secreted Alkaline Phosphatase, B-galactosidase; baculovirus expression system; bacterial and mammalian expression systems; recombination systems. Must have knowledge of plasmid and phage biology, biochemistry, CAD Gene. \$52,800 per year. Job site/interview: Palo Alto. Send résumé and this ad to: **Job Number JP60216028, P.O. Box 269065, Sacramento, CA 95826-9065.**

STAFF ASSOCIATE POSITION

A **STAFF ASSOCIATE** position for a genetic counselor is available immediately in the Department of Neurology, Division of Movement Disorders, at Columbia University. The Staff Associate will act as Study Coordinator for funded clinical genetic projects. Primary responsibilities include enrolling families into the studies and obtaining family histories, interviewing patients and family members, organizing data for grants and manuscripts, collecting blood from subjects for DNA analysis, and subsequent genetic counseling (travel required). The applicant should have an M.S. degree in genetic counseling and one to two years of related experience. Send curriculum vitae and names of three references to: **Dr. Susan Bressman, M.D., Department of Neurology, 710 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

SCIENTIST/SENIOR SCIENTIST—Cell and Molecular Biology/Protein Biochemistry: AtheroGenics, Inc. is a rapidly growing biopharmaceutical company engaged in the discovery and development of products for diagnosis and treatment of atherosclerosis and inflammation. Ph.D. with one to four years (scientist) or five to seven years (senior scientist) of postdoctoral experience in cellular and molecular biology to work on identification and characterization of novel proteins and cell-surface receptors. Experience in protein characterization and quantitative immunoassay development and knowledge of cardiovascular or inflammatory diseases. Send résumé to: **AtheroGenics, Human Resources, 3065 Northwoods Circle, Norcross, GA 30071. FAX: 770-447-1886.**

POSTDOCTORAL or RESEARCH ASSOCIATE position for an electrophysiologist with expertise in patch clamp methodology. Please send complete curriculum vitae plus three letters of reference to: **Dr. Kruh, c/o Human Resources, The Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.**

Ph.D. or M.S. with experience in managing CAP certified clinical chemistry lab needed. Interest in writing manuscripts on assay applications highly desirable. Potential for long-term position. Salary and benefits competitive. Send cover letter, curriculum vitae, and names of three references to: **Ms. C. Farrell, Min. Met. Lab., P.O. Box 7210, Loma Linda, CA 92354.**

POSITIONS OPEN

RESEARCH PLANT GENETICIST. USDA/ARS is seeking applications for a GS-11/12/13 Research Plant Geneticist position in the Horticulture and Breeding Research Unit, U.S. Horticultural Research Laboratory, Orlando, Florida. Incumbent conducts both basic and applied research as part of the Laboratory's citrus improvement program, which is designed to provide fundamental knowledge on the genetic, morphological, and biological inherent traits necessary to produce horticulturally superior trees. Primary focus is on developing citrus scions to improve citrus tree performance in sustained production, quantity, and quality of fruit; resistance to biotic/abiotic stresses; variable fruit maturing dates; and other horticultural features of scientific/commercial value. A degree in genetics or other biological sciences that included genetics plus specialized research experience or graduate level related education and experience is required. Salary range is \$36,000 to \$67,000. *Must be U.S. citizen.*

Contact: **Dr. George Yelenosky, Telephone: 407-897-7352** for program/position information. For application forms and procedures contact: **C. Wayne Moore, Telephone: 407-897-7310.** Applications in response to this advertisement should be marked D6S-063, postmarked by September 16, 1996, and submitted to: **Vickie Taber, USDA, ARS, Southern Operations Branch, 6305 Ivy Lane, Room 370, Greenbelt, MD 20770-1435. ARS is an Equal Opportunity Employer.**

RESEARCH SCIENTISTS

Korea Kumho Life and Environmental Science Laboratory, the newly established research center in Kwangju, Korea, supported by Kumho Petrochemical Co. and Kumho Group, one of the major industrial conglomerates in Korea, has immediate openings for junior and senior **RESEARCH SCIENTISTS** in plant molecular biology/biotechnology and bio-remediation. Candidates must have a Ph.D. degree. Postdoctoral experience preferred. Postdoctoral fellowships are also available. Proficiency in Korean is not required. We offer a competitive base salary, free housing, and moving expenses. Interested applicants should send curriculum vitae and statement of past experience and future interest, and should arrange to have three letters of reference sent to: **Kumho Life and Environmental Science Laboratory, c/o Kwangju Institute of Science and Technology, Kwangju, Korea. FAX: 82(country code)-62(city code)-953-5085; Email: pandp@unl.edu.**

Princeton University, Department of Molecular Biology, is seeking a professional **TECHNICAL STAFF** person to manage a Flow Cytometry Core Facility. Position requires a B.S. with eight to ten years of experience on flow cytometry instrumentation. Experience in multi-parameter analysis and sorting and DNA-cell cycle analysis, as well as familiarity with dye lasers, preferred. Responsibilities include administration, operation and repair of instrumentation, and instruction of graduate students, postdoctoral fellows, and faculty with new applications, experimental design, data interpretation, and generation of flow cytometric data for publication. Current instrumentation includes a modified B-D FACS vantage, B-D 4 color FACSScan, Coulter 753 with Cytomation Cicero Interface, and a Coulter Profile II Analyzer. Knowledge of and experience in use of some of the above instrumentation required; professional training on B-D instruments available. Compensation commensurate with education and experience. Send résumé to: **Lynn Egloff, Department of Molecular Biology, Princeton University, Lewis Thomas Lab, Princeton, NJ 08544. Princeton University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION

A **POSTDOCTORAL RESEARCH** position in molecular virology is available. The project involves the study of human immunodeficiency virus Integrase (IN) with emphasis on genetic and biochemical approaches to dissect the role of host transcription factors in integration, protein-protein interactions of HIV IN, and structure-function relationship of IN and the host factor. Applicant must hold a Ph.D. degree in biochemistry, molecular biology, molecular virology, or a related field. Minimal requirements are an expertise in molecular biology and a serious interest in AIDS research. Applicants should send curriculum vitae and names and addresses of three references to: **Dr. Ganjam V. Kalpana, Department of Molecular Genetics and Center for AIDS Research (CFAR), Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.**

POSITIONS OPEN

MATHEMATICAL ECOLOGIST

The Environmental Processes Division of the National Ocean and Atmospheric Administration's (NOAA's) Northeast Fisheries Science Center seeks a mathematical ecologist to work with a staff of fishery biologists, marine chemists, and oceanographers in an interdisciplinary research program focused on problems affecting marine and estuarine fisheries. The position is located at the new James J. Howard Marine Sciences Laboratory at Sandy Hook, New Jersey. Salary range is \$63,658 to \$82,757.

Applicants should have demonstrated expertise in mathematics, modeling, and biology and should possess a Ph.D. Experience in community dynamics and spatial processes is preferred. Peer recognition in biological oceanography, marine/estuarine ecology, or a related discipline is highly desirable.

For an application package, call: **Office of Personnel Management, Telephone: 919-790-2822** by August 19, 1996 and ask for announcement number AR0317.

For additional information, contact: **Dr. Jeffrey Cross, Telephone: 908-872-3024.**

Applicants must be qualified United States citizens. NOAA is an Equal Opportunity/Affirmative Action Employer.

TECHNOLOGY ACQUISITIONS MANAGER—Specialty Laboratories, Inc., a leader in the clinical medical reference laboratory field, has an immediate career opportunity available for an experienced Technology Acquisitions Manager. The selected candidate will be charged with establishing a strong network of contacts with academic diagnostic research groups and licensing officers at major universities, government institutions, and biotech companies to identify, evaluate, and secure emerging technologies. In addition, this individual will draw upon the company's marketing/sales expertise to evaluate projected new business and work closely with outside legal counsel with respect to patent searches. Qualified candidates will possess a Ph.D. in biological sciences with emphasis on disease marker research. A minimum of three years of prior experience in technology transfer and in-licensing required. Strong presentation and communication skills, ability to work very independently, and willingness to travel extensively also necessary. Forward your résumé to: **Director, Human Resources (TAM), Specialty Laboratories, 2211 Michigan Avenue, Santa Monica, CA 90404. FAX: 310-828-2413. Equal Opportunity Employer.**

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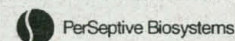
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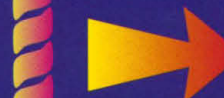


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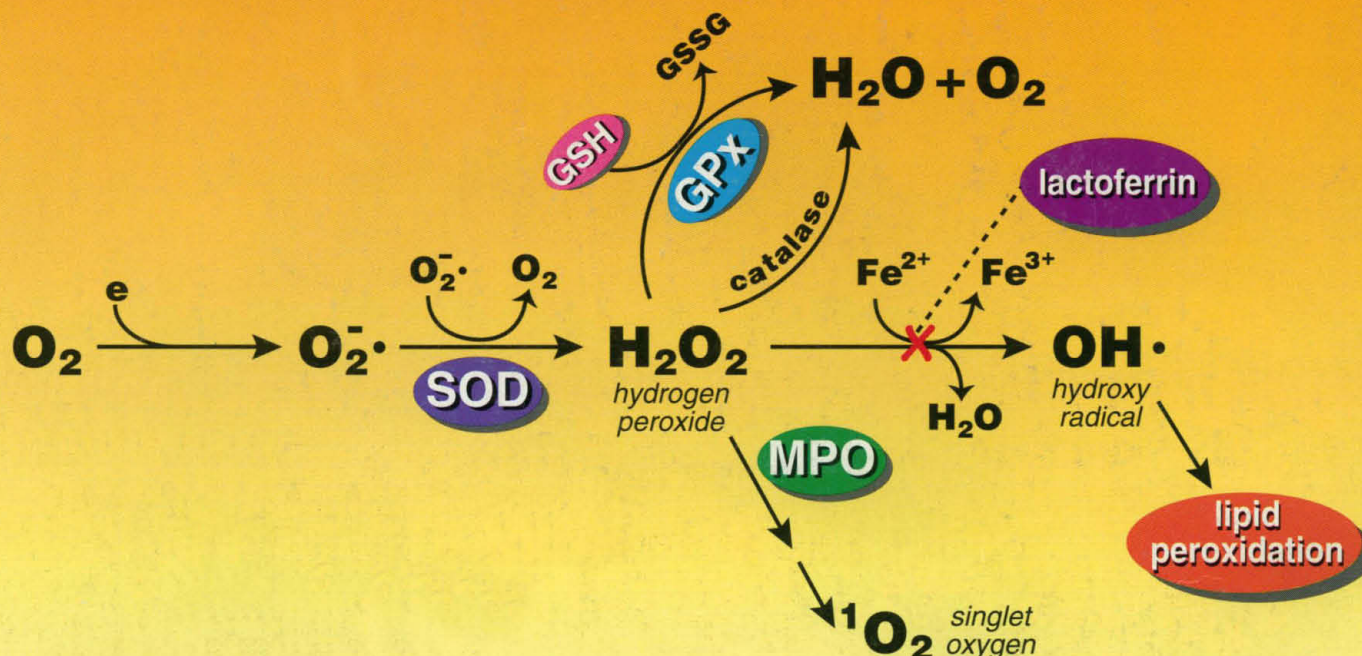
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