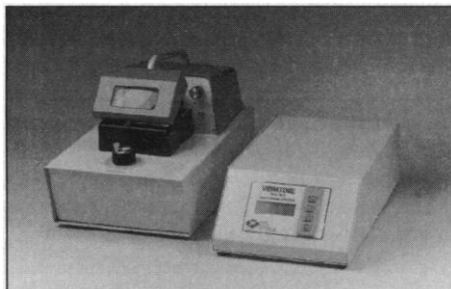


PRODUCTS & MATERIALS

Fresh Tissue Sectioning System

The Vibratome Series 3000 tissue sectioning system provides temperature-controlled bath cooling through use of a heat exchanger in the specimen bath. A microprocessor provides precise, repeatable functions to control the height of the specimen stage to cut uniform sections automatically. The Vibratome allows the user to section fresh or fixed tissue with no freezing or embedding, which can change the specimen's characteristics. Even



fresh tissue can be cut to a thickness of less than 10 μm . Automated sectioning blade movements allow single and serial sectioning to be fully programmable. The Vibratome 3000 is available with refrigeration only, automation only, or complete with both. Series 1000 and 2000 Vibratomes can be retrofitted with Series 3000 enhancements. **Technical Products International. Circle 140.**

Data Analysis and Graphing Software

A new version of pro Fit is available; it is a data analysis and graph plotting package for the Apple Macintosh. New features of the program include a "Preview Window" for visualizing the effects of varying parameters, full color support, the ability to zoom to 400%, and probability scaling. The program also incorporates the latest Apple technology, including AppleGuide, AppleScript,

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.

AppleEvents, QuickDraw GX, QuickDraw 3D, and Drag and Drop. **Cherwell Scientific. Circle 141.**

Automated Labeling System

The TBS Shur/Mark automated labeling system provides efficient feeding, printing, and collecting of tissue cassettes, biopsy cassettes, and microscope slides. The clear, consistent printing dramatically improves the quantity and quality of information that can be placed on cassettes or slides. A heated stylus burns through hot foil tape onto a cassette, providing up to three lines of permanent type; a regular stylus etches as many as five lines of information onto the painted area of a Colormark slide. The instrument's software allows the user to customize the con-

figuration of data on the front of a cassette or slide. Software options permit automatic batch processing and importation of data from external sources such as a laboratory information system. **Curtin Matheson Scientific. Circle 142.**

Monoclonal Antibodies

A monoclonal antibody (mAb) to human CD95 (the Fas cell surface glycoprotein involved in apoptosis) will induce apoptosis in activated T cells, B cells, natural killer cells, and thymocytes. Applications include flow cytometry, bioassay, and functional studies. **Antigenix America. Circle 143.**

VERItype mAbs for use in flow cytometry are provided as unconjugated, purified immunoglobulins, fluorescein-conjugated reagents and phycoerythrin-conjugated reagents. VERItype dual markers to human determinants and isotypic negative controls are also available. **Harlan Sera-Lab. Circle 144.**

New mAbs are available that allow the user to detect intracytoplasmic forms of cytokine by flow cytometry. They are available conjugated to phycoerythrin or fluorescein. Once the cells of interest have been fixed and per-

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meabilized, staining can reveal how cellular activation can result in cytokine synthesis. **R&D Systems Europe. Circle 145.**

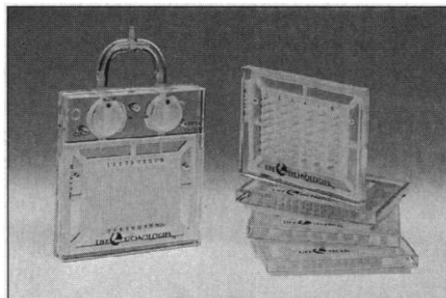
Panels for Gene Mapping

The Monochromosomal Somatic Cell Hybrid Panel is available for expedient chromosome localization and the Polychromosomal Somatic Cell Hybrid Panel can provide an independent confirmation. The panels can be used for chromosome mapping of genes and gene families, synthesis of chromosome-specific probes, and characterization of yeast artificial chromosome chimerism. **BIOS Laboratories. Circle 146.**

Filtration Manifold System

The Convertible Filtration Manifold System is for the immobilization of unfractionated or purified DNA, RNA, or protein samples onto a membrane using a vacuum source. It is suitable for use in five formats: two 96-well slot sizes, two 48-well slot sizes, and a 20-well slot size for protein immunoblotting. The system's design eliminates the need for clamps or screws during assembly. The seal is formed by the same vacuum source that completes fil-

tration. Five interchangeable top plates and gaskets are available, making it easy to purchase a customized system. The risk of cross-



contamination is virtually eliminated because a matching gasket is provided with each top plate, completely sealing the wells. **Life Technologies. Circle 147.**

Microplate Reader

The BioLumin 960 microassay reader offers both fluorescence and absorbance microplate analysis capabilities and comes with features that make it suitable for both low and high throughput phases of microassay projects. The reader features 1-fmol fluorescent dye sensitivity and reads microplates in absorbance, fluorescence, or both modes simultaneously in 12 s. The reading chamber

is temperature-controlled from ambient to 45°C. An optional RS-232 interface enables synchronized robotic operation. Typical applications include apoptosis, cytotoxicity, cell viability, cytokine, ligand-receptor, and toxicology assays. **Molecular Dynamics. Circle 148.**

Literature

HPLC Solvents and Reagents is a brochure that explains how this line can help prevent common problems in liquid chromatography separations. The brochure covers seven problems frequently encountered in high-performance liquid chromatographic and spectrophotometric analyses, including extraneous peaks in gradient elution chromatography, baseline noise and drift, negative peaks in isocratic chromatography, disappearance of standards and analytes, short column life, erratic separation in normal phase chromatography, and the need for frequent instrument recalibration. **J.T. Baker. Circle 149.**

Immunoassays 1996-1997 is a catalog featuring cytokine, retrovirology, and histamine immunoassays. **Immunotech. Circle 150.**

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POSITIONS OPEN

FACULTY POSITION PSYCHIATRIC NEUROIMAGING RESEARCH

The University of North Carolina School of Medicine at Chapel Hill is seeking candidates for a tenured (or tenure-track) **FACULTY** position to provide leadership in neuroimaging research for the Department of Psychiatry and the Mental Health and Neuroscience Clinical Research Center. Candidates should have an M.D. or Ph.D. and postdoctoral training in psychiatry or psychology, together with expertise in morphologic/morphometric and/or functional magnetic resonance imaging and spectroscopy and a documented record of accomplishment in the area of psychosis and/or affective disorders research. The successful candidate will work in collaboration with a team of MHCRC investigators from both the University of North Carolina and Duke University, and will be expected to obtain support to develop his or her independent research as well. Faculty appointment and salary will be commensurate with the candidate's level of experience and accomplishment.

Interested applicants should send a curriculum vitae, statement of research interests, and three letters of reference to: **Jeffrey A. Lieberman, M.D., Vice Chairman, Department of Psychiatry, Chair of Search Committee, Campus Box 7160, University of North Carolina School of Medicine, Chapel Hill, NC 27599-7160.** The search will be continued until the successful candidate is found.

ACADEMIC HEAD, Department of Fishery and Wildlife Sciences, College of Agriculture and Home Economics, New Mexico State University, Las Cruces, NM; full-time, 12-month appointment. Tenured, full professor responsible for administration, teaching, research, and service. Salary is competitive, commensurate with qualifications and experience. Ph.D. in fishery and/or wildlife science or related field with university, industry, or agency experience demonstrating increasing professional growth and leadership responsibility. *Applications from women and minorities are particularly encouraged.* The successful applicant will report directly to the Dean and Chief Administrative Officer, College of Agriculture and Home Economics. Provide leadership and administrative support for preparation, justification, and administration of budgets for the department; direction of the department's undergraduate and graduate academic programs; and fulfilling the department's research mission. Recruit qualified faculty and staff; promote cooperative efforts with other departments, state and federal agencies, and the Cooperative Fish and Wildlife Research Unit. The Department of Fishery and Wildlife Sciences has 7 tenure-track faculty, 14 staff members, and 9 adjunct faculty. Send letter of application, curriculum vitae, and names, addresses, and telephone numbers of three to five references by October 15, 1996, to: **Dr. Gary L. Cunningham, Chair, Search Committee, Box 30003, Department 3BF, New Mexico State University, Las Cruces, NM 88003-8003.** Telephone: 505-646-3125. *New Mexico State University is an Equal Opportunity/Affirmative Action Employer.*

The University of Washington, Department of Molecular Biotechnology seeks an independent Comprehensive Biology/Informatics Research **PROFESSOR** (non-tenure 100% research) to direct large-scale projects to probe physiological processes in yeast and mammalian cells starting in fall 1996. Selectee will establish an electronic collaborative workspace for biological research in the growth control of eukaryotic cells. The position requires both participation in creating the bioinformatics systems and in designing, conducting, and evaluating quantitative biological experiments. Must have demonstrated conceptual and technical ability to perform integrated systems research approach. Must demonstrate ability to solicit and produce independent funding to support research. M.D. and/or Ph.D., extensive research experience: minimum of 15 years experience in cell biology, systems design and process development, and analytical studies of regulatory functions in eukaryotic cells focusing on growth controlled cells; five years experience in bioinformatics/industrial collaborations. Salary based on experience. Send cover letter addressing specifications of job. Curriculum vitae and list of publications no later than September 6, 1996, to: **Bob Mitchell, Administrator, University of Washington, Department of Molecular Biotechnology, Box 357730, Seattle, WA 98195-7730.** Job description on Email: molbiotk@u.washington.edu. The University of Washington is building a culturally diverse faculty, and strongly encourages applications from female and minority candidates. The University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

SCIENCE COORDINATOR Environmental and Occupational Health Sciences Institute

Rutgers, The State University of New Jersey and Robert Wood Johnson Medical School/University of Medicine and Dentistry of New Jersey EOHHS, a multidisciplinary institute whose mission is to foster interdisciplinary research and education in environmental health-related areas, is seeking an individual to provide leadership, and facilitate interdisciplinary research and education. This individual will interact with faculty and staff of the institute's six divisions; environmental health, environmental policy, exposure measurement and assessment, occupational health, public health and risk communication, and toxicology. In addition, the Science Coordinator will assist the faculty in obtaining grants, interact with State and Federal Agencies with the aim of increasing funding opportunities for EOHHS and communicating EOHHS research and education capabilities.

The qualified candidate will have a **DOCTORAL** degree in an environmental health science or related area, excellent written skills, strong facilitating skills, and management skills. Applications from persons with prior experience in interdisciplinary settings are encouraged. Salary will be commensurate with experience.

Please send a curriculum vitae and three references to: **Dr. Bernard D. Goldstein, Director, Environmental and Occupational Health Sciences Institute, 681 Frelinghuysen Road, Piscataway, NJ 08855-1179.** Application deadline is September 30, 1996. *University of Medicine and Dentistry of New Jersey is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.*

GEORGETOWN UNIVERSITY Chair of the Department of Microbiology and Immunology and Chief of the Division of Infectious Diseases, Department of Medicine

Georgetown University Medical Center has re-opened its search for a nationally known **PHYSICIAN-SCIENTIST** to chair the Department of Microbiology and Immunology, serve as chief of the Department of Medicine's Division of Infectious Diseases, and direct the Medical Center's program in Infectious Diseases. The ideal candidate will possess both the M.D. and the Ph.D. degrees, with board certifications in internal medicine and infectious diseases, will have recognized scholarly expertise in microbiology, and will have significant leadership experience and ability. Qualified applicants will have demonstrated experience in managing a diverse group of microbiologists and immunologists, developing extramural research support, and supervising a clinical program in infectious diseases. Review of applications is currently underway. Applicants should send a letter of interest stating their qualifications and accomplishments specific for this position and a curriculum vitae to: **Marc E. Lippman, M.D., Chair, Microbiology/Immunology Search Committee, E 505 Research Building, Georgetown University Medical Center, 3970 Reservoir Road, N.W., Washington, DC 20007.** *Georgetown University is an Affirmative Action/Equal Opportunity Employer.*

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 Michelassi, 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.*



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Please send CV and references to: # C96-022,
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For more information, please visit our website:
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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.*

DIRECTOR INSTITUTE OF LABORATORY ANIMAL RESOURCES

The **National Research Council (NRC)** is currently seeking a director for the Institute of Laboratory Animal Resources (ILAR) to manage its day-to-day operation, handle its program development and administration, and provide advice to the Executive Director of the Commission on Life Sciences and the NRC Chairman on matters related to laboratory animal science and related issues. Responsibilities include working closely with the Chairman and members of ILAR Council to develop pertinent and appropriate program activities and establish priorities for its program work. Will also be responsible for the initiation, development, planning, management and coordination of ILAR's program activities, including fund raising, financial and contract management, program budgets, identifying and maintaining liaison with potential and current sponsors, and supervising ILAR staff and related personnel matters.

We seek a scientist/administrator with a Ph.D., D.V.M., or equivalent in a biomedical field and 4+ years experience in laboratory animal science and issues, including knowledge of government policies and program, animal welfare regulations, and animal rights issues. Must have fiscal management, program development, and personnel management experience. Requires excellent organizational and communication skills and a record of achievement in his or her scientific area with successively higher levels of responsibility.

We offer a competitive salary and benefits package. Send resume in confidence to: **PG-ILAR, NAS 343, 2101 Constitution Avenue, N.W. Washington, D.C. 20418.** EOE.



Michigan State University Fish Population Geneticist Tenure-Track, Assistant Professor Position #AG-1366

The Department of Fisheries and Wildlife at Michigan State University invites applications for a 12-month, tenure-track, fish population geneticist position at the assistant professor level. The Ph.D. is required. Preference will be given to applicants with strong quantitative skills and experience in applications of genetics theory and techniques to problems of stock assessment and performance, population dynamics, and hatchery production. The ability to teach a graduate level course in fish genetics, conservation biology, or a related topic is required, as is the ability to conduct research in the area of fish genetics with implications towards management of exploited, unexploited, and protected species. The abilities to advise undergraduate and graduate students; to work effectively with state, federal, and private organizations; to obtain research grants; to conduct research and publish the findings; and to participate in faculty committees and public service programs are expected.

Application deadline: October 15, 1996, or until a suitable candidate is found. Salary is competitive, commensurate with education, experience, and demonstrated ability. Interested persons should submit a letter of application stating professional goals and objectives, a curriculum vitae with supporting materials including official transcripts, and three letters of reference to: **Dr. Thomas Coon, Search Committee Chairperson, Department of Fisheries and Wildlife, 13 Natural Resources Building, Michigan State University, East Lansing, MI 48824.** Telephone: (517) 353-3373; Fax: (517) 432-1699; E-mail: coontg@ibm.msu.edu.

Michigan State University is an equal opportunity/affirmative action employer. Minority and women candidates are encouraged to apply. Disabled persons have the right to request and receive reasonable accommodation.

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Metabolic Diseases

Investigator, Insulin Signal Transduction

The Metabolic Diseases group is currently seeking an Investigator to direct a research group in the study of insulin action and the identification of drug discovery targets for the treatment of insulin resistance. Requirements include a Ph.D. in a field relevant to the area of signal transduction and post doctoral experience relating to the study of insulin action. Knowledge and extensive experience in biochemical methodology relating to intracellular signal transduction processes and their relevance to insulin and other growth factors is critical. Candidates must have a knowledge of enzymology and skills in assessing changes in the phosphorylation of various proteins and enzymes as well as measurement of kinase and phosphatase activities. A fundamental knowledge of cell and molecular biology is required, along with the ability to communicate effectively and a willingness to collaborate with other scientists. **Position #OPSCI-2097.**

Molecular Biologist

Ion Channel Molecular Biology

The Ion Channel Molecular Biology group is currently seeking a Senior Pharmacologist to participate in the exploration of novel ion channel molecular targets. Specific responsibilities include in situ hybridization and antibody immunostaining studies for the identification of novel ion channel targets. Requirements include a B.S. with 5-10 years experience, or M.S. with 4-6 years experience, and a high level of expertise in both state-of-the-art molecular biology and in situ hybridization/immunostaining (Immunocytochemistry), including tissue preparation and cryosectioning. Experience in cloning and heterologous expression is essential. This position also requires a strong publication record. Background and expertise in ion channel biology will be a plus. **Position #OPSCI-2116.**

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please send your resume with salary requirements and position #, to: **Wyeth-Ayerst Research, Human Resources Dept., P.O. Box 7886, Philadelphia, PA 19101-7886, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at (610) 989-4854. e-mail: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume).** Principals Only. Equal Opportunity Employer, M/F/D/V.

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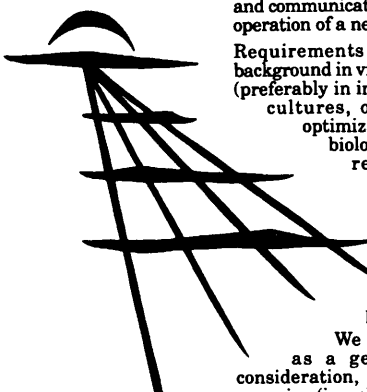
Department of Biology seeking biological oceanographer to join scientific staff. Research interest should include animal physiology, benthic biology, bioacoustics, biochemistry, biogeochemistry, cetacean behavior, environmental toxicology, ichthyology, mathematical ecology, microbial ecology, bacteriology, phytoplankton ecology and zooplankton biology. Ph.D and postdoctoral experience in above or related fields required. Candidate must maintain funded research program and participate in graduate program in Biological Oceanography. Applicants should send intent letter, resume and three references by October 31, 1996 to: Woods Hole Oceanographic Institution, Box 54SFC4, MS #15 Woods Hole, MA 02543.

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Requirements for (2) BS/MS level scientist positions are: (i) background in virology/cell biology and 2-5 years prior work experience (preferably in industry) with mammalian or other non-bacterial cell cultures, operation of roller bottles and bioreactors and optimization/process development and scale-up for producing biologicals (preferably viruses). A working knowledge of recovery processes would be an advantage; (ii) background in biochemistry, virology or biochemical engineering with 2-5 years prior experience in purification, methods/process development, scale-up and analytical support required during bench and pilot-scale recovery of virus and proteins from cell culture is necessary. For both positions, exposure/training in a GLP/cGMP environment and procedures is desirable.

We offer a competitive salary/benefits program, as well as a generous relocation package. For confidential consideration, please forward your resume suitable for electronic scanning (i.e., eliminate italics, bullets, bolds, underlines and staples) to: **Employee Resources, Ad# 1165, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340.**

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RESEARCH SCIENTIST

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In this highly interactive and visible position, you will investigate mechanisms of drug induced skin irritation and sensitization following transdermal therapy with emphasis on approaches to mitigate these responses. You will also manage BS level scientists; maintain project areas; prepare written/technical documents, oral presentations and project updates; and interface with scientists from many disciplines within the company. In addition, you will be expected to present at national scientific meetings and publish meritorious work.

The position requires a Ph.D. in immunology or biology and 4-6 years of academic or industrial research experience in skin biology as it relates to local cutaneous inflammation. Solid knowledge of the biochemistry of inflammation and skin physiology as well as proven ability to work with *in vitro* and *in vivo* model systems is critical. A strong, fundamental scientific background and excellent managerial, collaborative and written/verbal communication skills are essential. Experience with immunohistochemistry techniques and histopathology will be valuable.

Please send resume to: **ALZA Corporation, HR Dept., Attn: Job# SC1823-SH, 950 Page Mill Rd., P.O. Box 10950, Palo Alto, CA 94303-0802.** Fax: (415) 494-5656. TDD: (415) 494-5003. Or call our Job Hotline at (415) 494-5319. *ALZA is proud to be an Equal Opportunity Employer and welcomes applications from minorities & persons with disabilities.*

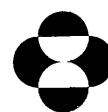


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MOLECULAR BIOLOGIST

Merck Research Laboratories, a leader in pharmaceutical and biological research, has an immediate opening for a molecular biologist in the Department of Genetic and Cellular Toxicology. The successful candidate will carry out a wide range of molecular and cellular biology techniques. Areas of research include examination of genetic rearrangements and investigation of alterations in growth regulatory signal transduction pathways.

The position requires a BS/MS in molecular and cellular biology, biochemistry, a closely related field or the equivalent. Recent graduates with laboratory experience in molecular biology will be considered. Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae including grade-point averages, with cover letter to: **Personnel Manager, Ad #D-65, MRL Human Resources WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486.** Only candidates selected for interviews will receive responses. EEO/AA/VH Employer.



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Research Laboratories

MIT

ASSISTANT PROFESSOR

The Department of Brain and Cognitive Sciences anticipates making a tenure-track appointment in experimental cognitive science at the Assistant Professor level. Candidates should have an active research interest in one or more of the following areas: memory, high-level vision, cognitive development, reasoning, learning, attention and action. Responsibilities include graduate and undergraduate teaching and research supervision.

Applications should include a brief cover letter stating the candidate's research and teaching interests, a vita, three letters of recommendation and representative reprints. Send applications by **November 1, 1996 to: Cognitive Search Committee, E25-406, MIT, 77 Mass. Avenue, Cambridge, MA 02139-4307.** Qualified women and minority candidates are especially encouraged to apply.



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Chief, Oceanic Research and Applications Division

NESDIS/NOAA/U.S. Dept. of Commerce

The Office of Research and Applications of the National Environmental Satellite, Data, and Information Service (NESDIS), National Oceanic and Atmospheric Administration (NOAA) is soliciting applications for the position of Chief, Oceanic Research and Applications Division. The incumbent will: plan and manage a program of satellite-based oceanic remote sensing research and applications; formulate, guide, and conduct research concerned with the use of satellite oceanographic observations in solving the major oceanographic and climate problems of national and international concern; direct the development of new and modified approaches to the analysis, application, and interpretation of satellite data for advancing the state of knowledge in oceanic remote sensing; develop, improve, and maintain the scientific algorithms for operational products; assist in the planning of future satellite systems; and represent the Agency at national and international meetings.

The position requires broad knowledge and extensive interdisciplinary experience in ocean sciences, oceanic remote sensing technology, and environmental satellite systems. Applicants should have an advanced degree with suitable additional related experience in carrying out and directing research in the area of application of satellite data to oceanography, and demonstrated ability to provide scientific, technical, and organizational leadership in order to maintain a long-term research program in oceanic science.

The position is at the GS-15 level and is located at the NOAA Science Center in Camp Springs, MD. The annual salary is \$73,486-\$95,351.

For additional information on the vacancy (Announcement No. OA/E-96-0045.SAO), contact: **NOAA, Human Resources Management Office, SSMC-3, 1315 East-West Highway, Rm. 13844, Silver Spring, MD 20910** or call **Sandra O'Brien** at 301-713-0524, Fax: 301-713-1979. Applications must be received by September 30.

Faculty Positions in Cell Biology/Physiology, Pathogenesis, Analytical Chemistry, and Biochemistry

The Department of Biology at Georgia State University invites applications for two anticipated tenure-track positions, one each in cell biology/physiology and microbial pathogenesis, in addition to the ongoing search on immunology. Areas of research interest for the cell biology/physiology position should complement existing research strength in renal physiology and neuroendocrinology. The area for the microbial pathogenesis position should involve molecular approaches. Appointments will start on or before September 15, 1997. Applicants will be considered at the advanced assistant professor or more senior level. It is desirable for applicants to have current funded research programs. Successful candidates will participate in instruction at the undergraduate and graduate M.S./Ph.D. levels. The Department has excellent core facilities. Applications including curriculum vitae, reprints, statement of research plans, and three letters of reference should be sent to **Chair of Search Committee (Cell Biology/Physiology or Microbial Pathogenesis), Department of Biology, P.O. Box 4010, Georgia State University, Atlanta, GA 30302-4010.** Deadline for receipt of application is October 14, 1996.

The Department of Chemistry invites applications for two anticipated tenure-track positions: a) analytical and b) biochem. Candidates will be expected to establish a vigorous, externally-funded research program and attract students in an expanding Ph.D. program. Excellence in teaching at all levels expected. For (a), area open; expertise in bioanalysis, environmental or electrochem desirable. For (b), expertise in protein nucleic acid chem is preferred; access to dept. NMR facilities and biology core facilities available. Send CV, description of proposed research and 3 letters of recommendation by October 7, 1996, to **Chair, Search Committee (Analytical or Biochem), Department of Chemistry, Georgia State University, Atlanta, GA, 30303.**

Georgia State University, a unit of the University System of Georgia, is an Equal Opportunity/Affirmative Action Employer.

NEUROPSYCHOLOGIST STAFF FELLOW

The Clinical Epilepsy Section, Epilepsy Research Branch, Division of Intramural Research NINDS has an opening for a Staff Fellow Neuropsychologist to conduct studies in children and adults with epilepsy, and normal controls. The Fellow will be expected to develop a personal research program consistent with the Section's mission. Previous neuropsychological research in the Section has focused on cortical representation of language and memory, comparison between mapping using imaging techniques and direct cortical stimulation, and the study of functional reorganization due to seizures. PET and fMRI have been emphasized in the Section's work, and will continue to be used extensively in the future, supported by strong NIH functional imaging core facilities. Initial appointment is for two years, with yearly extensions possible up to five years. Stipend, determined by candidate's educational and professional experience, ranges from \$28,000-\$45,336. *NINDS is committed to an affirmative action program that includes steps to improve the representation of minorities, women, and the handicapped in the mainstream of basic and clinical neuroscience research.*

For further information, contact:

William H. Theodore, M.D., Chief,
Clinical Epilepsy Section, Telephone:
301-496-1505, Fax: 301-401-2871,
Email: theodore@alw.nih.gov

TWO POSTDOCTORAL POSITIONS AT NCI, NIH

The cellular interactions and signal transduction events elicited by a member of the Eph family of receptor tyrosine kinases as well as candidate ligands are being studied. Emphasis is placed on signal transduction events during *Xenopus laevis* embryonic development (**Ira O. Daar, Ph.D.**, Developmental Signal Transduction Group). Candidates should have a strong background in molecular, cellular, or developmental biology.

The control of retrovirus gene expression and mRNA processing are under investigation (**David Derse, Ph.D.**, Retrovirus Pathogenesis Group). Research will focus on characterizing interactions among mRNA sequences, cell splicing factors, and retrovirus regulatory proteins (REV). Applicants should have a strong background in molecular biology and virology.

Applicants must have fewer than 5 years of postdoctoral experience. Curriculum vitae and the names of three references should be sent to the appropriate mentor at: **The Laboratory of Leukocyte Biology, Division of Basic Sciences, NCI-FCRDC, Bldg. 567, Frederick, MD 21702.** E-mail addresses are: derse@ncifcrf.gov or daar@ncifcrf.gov.

INFECTIOUS DISEASES RESEARCH at Schering-Plough

From molecules to medicines. At the Schering-Plough Research Institute, scientists are discovering and developing the novel therapeutics that challenge humankind's most debilitating diseases. To continue this important work, we seek talented scientists to join our multidisciplinary group focused on molecular targets relevant to the discovery of novel agents for the treatment of Infectious Diseases.

PRINCIPAL SCIENTIST Antifungal Drug Development

In addition to a PhD degree, the successful candidate will have 2-8 years of postdoctoral experience in fungal biochemistry and genetics. Experience in bioinformatics or high through-put screening is an asset. The position will involve the selection and implementation of novel targets for antifungal screening. To be considered for this position, please reference Dept. DMS/KS-JG.

POSTDOCTORAL FELLOWSHIP Antibacterial Target Evaluation

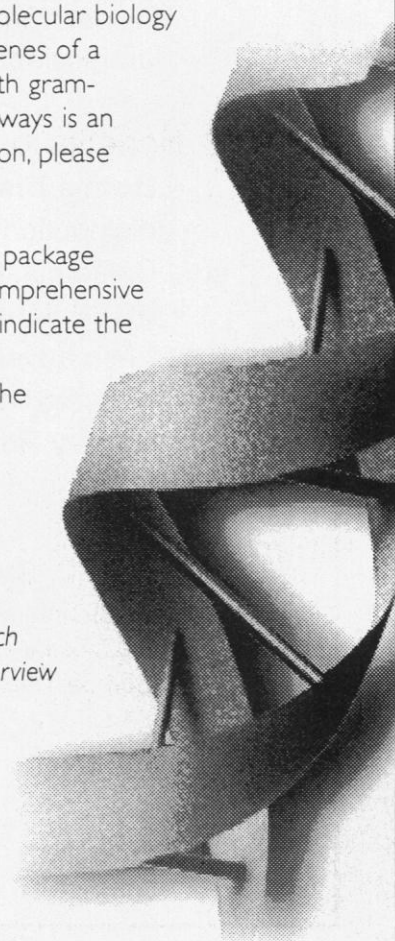
We are seeking a PhD with a strong background in biochemistry, bacterial genetics, or molecular biology to identify and characterize unique genes of a pathogenic bacterium. Experience with gram-positive organisms or metabolic pathways is an asset. To be considered for this position, please reference Dept. DMS/KS-TM6273.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. Qualified candidates should indicate the Dept. Code and send their CV, a statement of research interests and the names of 3 references to: Human Resources-DMS, Schering-Plough Research Institute, MS #1255, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



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For more information, contact:

In the US: Janis Crowley, (212) 496-7704; fax (202) 289-6742.

In Europe: Debbie Cummings, +44 (0) 1223 302067; fax +44 (0) 1223 567208.

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POSTDOCTORAL FELLOWSHIPS

Two positions, a postdoctoral fellowship and a research associate, are available in the Laboratory of Epithelial Cell Biology of the Nemours Research Programs. The primary focus of the laboratory is the regulation of chloride channel activity in cystic fibrosis. The positions, available immediately, require a PhD in biochemistry or related field and experience with tissue culture. In addition experience with in vivo protein labeling, peptide mapping, mammalian expression systems, or electrophysiology would be helpful. The laboratory is located at the Alfred I. duPont Institute in Wilmington, DE and is part of the Pediatrics Dept. of Thomas Jefferson University. The Institute offers competitive salaries and benefits packages. Send curriculum vitae and names of three references to: **Dr. William Reenstra, Dept. of Clinical Science, Alfred I. duPont Institute, P.O. Box 269, Wilmington, DE 19899.** A.I. duPont Institute is an Equal Opportunity/Affirmative Action Employer.



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Excellent benefits package, including a company-matched savings plan. Please send cover letter and resume, with salary requirements, to: **B. Nabi, Human Resources Department.**

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RESEARCH OPPORTUNITIES

CELL & MOLECULAR BIOLOGY

The Corporate Research Division of the Procter & Gamble Company, located in Cincinnati, Ohio, has two openings for Ph.D. molecular biologists and one opening for a Ph.D. cell/molecular biologist at our Miami Valley Laboratories.

No agency referrals, please.

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

Equal Opportunity Employer

• Molecular Biologists (Dept. CRD1)

We are seeking two individuals for a new group that will produce a variety of proteins in recombinant *Bacillus subtilis*, yeasts, fungi, and Baculovirus. The successful candidates will have experience in the molecular biology of *B. subtilis*, yeasts, fungi, or Baculovirus. Demonstrated skills in cloning, gene expression, and recombinant DNA are also required.

• Cell/Molecular Biologist (Dept. CRD2)

We are seeking an individual to join a multidisciplinary group focused on identifying molecular targets for drug discovery. This would involve studies to establish relevance of signal transduction pathways to specific therapeutic applications, leading up to the design of assays for high-throughput drug screening. The candidate must have demonstrated a successful track record of independent, innovative research on cellular signal transduction.

Procter & Gamble is a world leader in the research, development, manufacture, and marketing of a wide variety of consumer products. Annual worldwide sales exceed \$35 billion and our R&D budget is over \$1.4 billion/year. P&G offers a competitive salary and benefits package, placing us among the top 5% of U.S. firms.

If you meet the qualifications for one of these positions, please send a letter of introduction (indicating the department for which you are applying), resume, and list of publications to:



Dr. G.D. Owens
The Procter & Gamble Company
Doctoral Recruiting, Dept. CRD (1 or 2)
P.O. Box 538707
Cincinnati, Ohio 45253-8707

Professor And Director Sealy Center For Molecular Science

The University of Texas Medical Branch, Galveston, Texas, invites nominations and applications of individuals with strong research records and leadership qualities in the area of molecular biology and biochemistry for the position of Director of the Sealy Center for Molecular Science. The position will include an academic appointment at the level of Professor with tenure. The Director will report to the Dean of the School of Medicine and will lead a very strong, well established group of scientists focused on structure-function studies of DNA repair processes as well as signal transduction and gene expression. While the candidate's area of research in molecular science is open, it should be consistent with the research thrust of the Center or complementary areas. The Sealy Center for Molecular Science is a focus for an NIEHS-funded Center for Toxicology. Recent grants obtained through the Center include Lucille P. Markey Foundation support for the development of structural biology. The Sealy Center for Molecular Science is closely allied with the Sealy Center for Structural Biology and other centers and departments. A major expansion of UTMB was begun in the late 1980's leading to a doubling of the research space and external research support. The Sealy Center for Molecular Science includes 16 full-time faculty members and additional support staff.

Candidates must have a Ph.D., M.D. or equivalent doctoral degree and have a demonstrated record of research productivity as evidenced by grant support and publications in major, peer-reviewed journals. Salary is competitive and commensurate with experience. Individuals with names of nominees or interested candidates should address their nominations or applications to:

David Gorenstein, Ph.D.
Chair, Search Committee for Director of Sealy Center for Molecular Science
Professor and Director of the Sealy Center for Structural Biology
The University of Texas Medical Branch, Rt. 1157, Galveston, Texas 77555-1157

Candidates should send a letter stating their research interests, a detailed curriculum vitae, publication list, and names with phone numbers and addresses of at least four referees. Review of applications will begin upon receipt, and the search will continue until the position is filled.

UTMB

UTMB is an equal opportunity M/F/D/V affirmative action employer. UTMB hires only individuals authorized to work in the United States.

DIRECTOR, Scripps Institution of Oceanography

The University of California, San Diego is seeking a new leader for its marine research and educational activities.

The position combines three functions: Vice Chancellor for Marine Sciences, Director of the Scripps Institution of Oceanography, and Dean of the Scripps Graduate Faculty. It includes a tenured professorship at the University of California, San Diego with the related implications of substantial research achievement.

To be assured of consideration, nominations and applications should be sent immediately to: SIO Director Search Committee, Scripps Institution of Oceanography, Mail Code 0210, La Jolla, California 92093-0210, or E-mail to dirtsch@sio.ucsd.edu

Applications should include a complete resume and the names and addresses of at least three references. A detailed description of the position is available upon request. The University of California is an Equal Opportunity/Affirmative Action Employer.



PROJECT LEADER VETERINARY R&D

Fort Dodge Animal Health is a division of American Home Products Corporation and a leading manufacturer of veterinary biologicals and pharmaceuticals. Recent expansion has created an exciting opportunity for an innovative professional to make a significant contribution to the veterinary field.

The selected candidate will undertake projects leading to the licensure of veterinary biologicals. Prior experience in vaccine development or a DVM with a graduate degree in these areas or a Ph.D. in Veterinary Bacteriology or Parasitology is required.

Make a contribution that counts. You'll be provided with a state-of-the-art atmosphere, competitive salary and full benefits plan. For immediate consideration, mail your curriculum vitae with salary history to:

Director, Human Resources
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Executive Director

The International Association for Dental Research (IADR) and the American Association for Dental Research (AADR) are seeking an Executive Director, effective July 1, 1997.

The Associations represent the worldwide dental research community, with more than 11,000 dental scientist members, and have joint headquarters in Alexandria, Virginia, U.S.A. The Executive Director is responsible for coordinating the fiscal, administrative, publishing, and conference activities of the two Associations.

Candidates should be qualified to conduct the affairs of a major scientific society. In addition to leadership and management abilities, this involves extensive interaction and communication with members, with other associations, with national and international agencies, and with the dental industry. Candidates are also expected to have knowledge of the conduct and scope of dental research and how it relates to the practice of dentistry.

Applications should include a letter outlining interest in the position, a current curriculum vitae, and a list of three references.

Applications and nominations should be submitted as soon as possible, but no later than **October 18, 1996**. Seven copies of the application should be sent to: **Chair, Search Committee, IADR/AADR Central Office, 1619 Duke Street, Alexandria, Virginia 22314-3406, U.S.A.**

MYRIAD GENETICS, INC.

Myriad Genetics, located adjacent to the University of Utah in the foothills of the Wasatch Mountains, is a publicly-held genomics company focused in the isolation of significant disease-causing genes. We have challenging opportunities for:

Data Manager -- Responsibilities include maintaining and developing Sybase databases and associated files in a mixed UNIX/Mac environment. You'll tune DB for performance; organize and carry out back-up/archiving and ensure the security and flow of data from generation to analysis. Requires a BS in CS or equivalent and DBA experience on UNIX, preferably with Sybase. Experience with genetic data an advantage.

Analyst Programmer -- You'll extend and design Sybase databases of genetic data; incorporate novel algorithms for analysis into data flow as well as build GUI interfaces to DB and analysis programs in a mixed UNIX/Mac environment. Requires a BS in CS, a minimum three years' C/C++ and Sybase on UNIX/Mac platforms, and GUI programming experience. Experience with genetic data an advantage; Power building experience is preferred.

Please send/fax your letter of interest specifying position, a complete resume, and the names of three professional references to: Barbara Berry, Human Resources Dept. SCI, Myriad Genetics, Inc., 390 Wakara Way, Salt Lake City, UT 84108. Fax: 801-584-3640. EOE.



ELECTROPHYSIOLOGIST/ SCIENTIST Southern California

Allergan, a global leader in specialty therapeutic products, has a challenging opportunity for an individual experienced in electrophysiological recording.

We require a Ph.D. and proficiency in database management and computational techniques for quantitative analysis of electrophysiological responses. Strong interpersonal, analytical and verbal/written communication skills along with good detail orientation are essential. We prefer 2+ years post doctoral/industry experience, and understanding of Visual System anatomy and neurobiology. We also prefer familiarity with models for disease of the retina/visual pathways as well as laboratory and clinical techniques for measurement of visual system function including electroretinography and visually evoked cortical potentials.

We reward our employees with a competitive salary, an excellent benefits package and a great working environment. Please send resume to: **Allergan, Attn: Joyce Smith, T2-1B, 2525 Dupont Dr., Irvine, CA 92612.** No phone calls please. Equal Opportunity Employer.

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PROTEIN EXPRESSION

Headquartered in the San Francisco Bay Area, **Arris Pharmaceutical Corporation** is an innovative biopharmaceutical company using an integrated, team-oriented approach to drug discovery in an environment that promotes teamwork & rewards creativity. We are expanding our protease and receptor based programs, and have a great opportunity for a pair of highly motivated Scientists/Senior Research Associates to join our Protein Expression Group. Supported by state-of-the-art equipment and instrumentation, you will become a key member of a skilled interdisciplinary research team applying medicinal, combinatorial and computational chemistry, molecular biology, biochemistry and pharmacology to the discovery of viable drug candidates.

SCIENTIST/ SENIOR RESEARCH ASSOCIATE (Fermentation & Cell Culture)

You will be responsible for expressing various proteins for crystallography and protease inhibitor design groups. You will work independently to quickly develop a fermentation scheme to produce the proteins and interact with purification and other groups to achieve project goals. Candidates must possess a Ph.D. with 1-2 years' experience or a BS/MS with 5-7 years' experience. Good sterile technique, experience cultivating various cell lines (mammalian, insect, yeast, bacteria) in small to medium size fermentors, and knowledge of media development & process optimization are all required. Some downstream processing experience is a plus. (Job# S823-FCC)

SCIENTIST/ SENIOR RESEARCH ASSOCIATE (Purification)

You will develop protein purification schemes that deliver high purity products to our crystallography & protease inhibitor design groups. You will work independently to develop processes for a varied stream of protein products. You will collaborate with Fermentation and other groups to achieve project goals. Candidates must possess a Ph.D. with 1-2 years' experience or a BS/MS with 5-7 years' experience. Experience purifying proteins to crystallography level of purity, and developing purification schemes for proteins expressed in various expression systems (mammalian, insect, yeast, bacteria) is required. Experience with Pharmacia FPLC and Bio Pilot systems is essential. Familiarity with analytical methods for protein characterization is highly desirable. (Job# S823-P)

We offer extremely competitive salaries, full benefits, attractive equity participation and career advancement opportunities within a progressive, growing company. Please forward your resume to: **Arris Pharmaceutical Corporation, HR Department, (Attn: Job#), 385 Oyster Point Blvd., Suite 3, South San Francisco, CA 94080.** Equal Opportunity Employer



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POSITIONS OPEN

SYSTEMS NEUROPHYSIOLOGIST

The Department of Physiology at The University of Arizona College of Medicine is beginning a search for a systems neurophysiologist. This tenure-track, fiscal year appointment will be filled at the rank of **ASSISTANT PROFESSOR**. The department teaches physiology to undergraduates and to candidates for the M.S., Ph.D., and M.D. degrees. The faculty studies physiological mechanisms at the molecular, cellular, and system levels, and is particularly strong in the following areas: cardiovascular physiology; comparative physiology; endocrinology; exercise physiology; ion transport; neurophysiology; renal physiology. The successful candidate will be expected to perform the following duties: establish a vigorous, independent research program in systems neurophysiology; teach an upper-division undergraduate course on the neuromechanical basis of movement and exercise; contribute to graduate and medical education in the area of expertise; provide research training to undergraduate, graduate, and postdoctoral trainees; interact with faculty in at least one of the areas of departmental emphasis. Qualifications include the Ph.D., M.D., or equivalent, and two to four years of postdoctoral training. Candidates with demonstrated experience in teaching and grant writing are especially encouraged to apply. Position is available beginning July 1, 1997. Review of applications will begin in October 1996, and continue until the position is filled. Submit a letter of application; a summary of teaching and research interests; a current curriculum vitae that includes the names, addresses, and telephone numbers of at least three references; and at least three relevant reprints to: **Ralph F. Fregosi, Ph.D., Head of the Search Committee, Department of Physiology, The University of Arizona, Tucson, AZ 85724-5051**. More information about the Department of Physiology at Arizona can be found on the WWW (<http://vascular.physiol.arizona.edu/job.html>). *The University of Arizona is an Affirmative Action/Equal Opportunity/ADA Employer.*

VERTEBRATE PHYSIOLOGIST

The Trinity College Department of Biology invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR** to begin in the fall term, 1997. Applicants must have a Ph.D. (postdoctoral experience is preferred, but not required) and should have a record of teaching and scholarship in neurobiology so that participation in our Neuroscience Program is possible. Annual teaching duties include a vertebrate physiology course (preferably comparative physiology) and participation in team-taught courses of introductory biology and of neurobiology; in addition, it is expected that an advanced course in the area of the applicant's interest and a course for non-majors will be offered in alternate years. The candidate should pursue a program of research appropriate to the participation and interests of thesis students in biology and neuroscience. Excellent facilities and start-up funds are available. Send curriculum vitae (including statements on approach to teaching and of current research interests), graduate and undergraduate transcripts, and have three letters of recommendation forwarded to: **Richard B. Crawford, Chairman, Department of Biology, Trinity College, Hartford, CT 06106**. Evaluation of applicants will begin 15 October 1996 and continue until the position is filled. *Trinity College is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from minorities and women.*

ASSISTANT PROFESSOR OF BIOCHEMISTRY AND MOLECULAR BIOPHYSICS

Applications are invited for a **TENURE-TRACK**, 12-month position at the Assistant Professor level at the Medical College of Virginia. Applicants must have the Ph.D. degree and at least two years of postdoctoral training. Preference will be given to applicants with research interests in molecular neurobiology, structural biology, or signal transduction, but outstanding candidates in other fields may also be considered. The successful applicant will be expected to develop a competitive, independent research program and participate in the teaching of professional, graduate, and undergraduate students. Curriculum vitae, a statement of research interests and plans, and the names of three references should be sent to: **Dr. J. M. Collins, Chair of the Search Committee, Department of Biochemistry and Molecular Biophysics, Virginia Commonwealth University, P.O. Box 980614, Richmond, VA 23298-0614**. *Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.*

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.*

FACULTY POSITIONS

College of Science, Yonsei University, Seoul, Korea

Yonsei University, the leading private university of South Korea, invites applications for faculty positions in mathematics, physics, chemistry, biology, geology, and biochemistry. Up to 13 appointments will be made at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Applicants for Assistant Professor should have at least two years of postdoctoral experience before taking up the position, and the successful candidates are expected to develop vigorous independent research programs and participate in the undergraduate and graduate teaching. Preference will be given to applicants who can teach in Korean. Interested applicants should request the application forms to: **Faculty Search Committee, College of Science, Yonsei University, Shinchon 134, Seoul 120-749, Korea. FAX: 82-2-313-2446; Telephone: 82-2-361-2559**. Application deadline is September 21, 1996.

DEVELOPMENTAL BIOLOGY FACULTY POSITION

The Department of Cell Biology at the Duke University Medical Center is planning an expansion of its faculty in the field of Developmental Biology. Interactive scientists with a strong research commitment and interests in elucidating the cellular and molecular basis of development are encouraged to apply. Preference will be given to vertebrate model systems. Appointments will likely be at the level of **ASSISTANT PROFESSOR**. *Minority applicants are encouraged to apply.* Please send a curriculum vitae, a brief description of research interests, and arrange for us to receive letters from at least three references by November 1, 1996. Address initial correspondence to: **Developmental Biology Search, Michael P. Sheetz, Chairman, Department of Cell Biology, Duke University Medical Center, Box 3709, Durham, NC 27710**. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSISTANT PROFESSOR

Responsible for directing an ongoing animal research program involving tissue interactions during development and tissue repair. Of specific interest is the development of cranial sutures and healing of chronic wounds. This non-tenured position requires a Ph.D. and **POSTDOCTORAL RESEARCH EXPERIENCE** in a clinical department, with a demonstrated ability to obtain extramural funding. Send letter of intent, curriculum vitae, and names and addresses of three references to: **George T. Rodheaver, Ph.D., Plastic Surgery Research, Box 443, University of Virginia Medical Center, Charlottesville, VA 22908**. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

The Department of Biochemistry at the University of Texas at San Antonio invites applications for two twelve-month, state-funded, tenure-track faculty positions at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Candidates with research expertise in any area of contemporary biochemistry will be considered. Special consideration will be given to candidates with research interests in the following areas: 1) Biochemistry/Cell Biology—complex lipids, intracellular targeting, cellular adhesion mechanisms, glycoproteins; 2) Macromolecular Structure—high resolution structure (x-ray crystallography, NMR) and the dynamics of macromolecules. Interested applicants should send a curriculum vitae, a brief research prospectus, and the names of three references to: **Faculty Search Committee, Department of Biochemistry, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7760**. For information about the Department of Biochemistry, see <http://bioc02.utscsa.edu/biochem.html>. The deadline for applications is October 1, 1996. *An Affirmative Action/Equal Opportunity Employer.*

The Department of Chemistry at Georgetown University invites applications for a tenure-track position in biochemistry at the level of **ASSISTANT PROFESSOR**. Individuals pursuing a multidisciplinary approach to structural or mechanistic aspects of biochemistry are encouraged to apply. A Ph.D. in chemistry or biochemistry is required. The successful candidate is expected to develop a strong, independent research program and have a commitment to excellence in undergraduate and graduate teaching. Please send a curriculum vitae, a summary of research accomplishments, a plan of proposed research, and arrange to have three letters of reference sent directly to: **Chair, Faculty Recruiting Committee-S, Georgetown University, Department of Chemistry, Box 571227, Washington, DC 20057-1227**. Preference will be given to applications received on or before November 30, 1996. *Georgetown University is an Equal Opportunity/Affirmative Action Employer; applications from women and underrepresented minorities are encouraged.*

Email: <http://www.georgetown.edu/departments/chemistry/chemistry.html>.

The Department of Biology and Microbiology, University of Wisconsin Oshkosh, seeks applicants for two tenure-track **ASSISTANT PROFESSOR** positions, one in virology, the other in neurophysiology or endocrinology, both to begin 1 September 1997. Ph.D. required; postdoctoral and teaching experience desirable; share responsibility for introductory courses; develop a research program; pursue extramural funding and supervise M.S. theses. 1) Teach virology and share teaching responsibilities in related areas of microbiology. 2) Teach animal physiology and/or a combined human anatomy and physiology course, and share teaching responsibilities in related areas, with a research program in neurophysiology or endocrinology. Send letter of application, curriculum vitae, three letters of recommendation, and official transcripts by 25 October 1996, to: **M. A. Rouf, Chair, Department of Biology and Microbiology, University of Wisconsin Oshkosh, Oshkosh, WI 54901**. *The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.*

Natural Resources: **ASSISTANT PROFESSOR**, the Department of Range, Wildlife, and Fisheries Management, Texas Tech University, tenure-track, nine-month faculty position available January 1997. Summer salary is normally available through a combination of teaching and research. The position is approximately 50% teaching and 50% research. The applicant should have a Ph.D. in a natural resource area with at least one advanced degree in range science. Preference will be given to individuals with demonstrated ability in obtaining extramural funding. Applicants should send curriculum vitae, transcripts, description of research interests, and have three letters of recommendation forwarded by November 1, 1996, to: **Dr. Ernest B. Fish, Search Committee Chairman, Department of Range, Wildlife, and Fisheries Management, Texas Tech University, Lubbock, TX 79409-2125. Voice: 806-742-1983; FAX: 806-742-2280**. *Texas Tech is an Affirmative Action/Equal Opportunity Employer.*

VENTURE CAPITAL PROFESSIONAL

New York based venture capital firm seeks full-time Ph.D. or M.D. to evaluate cutting-edge technologies. Applicants have a strong understanding of molecular biology, biochemistry, or computer science, and possess strong writing and communication skills. Please send curriculum vitae to: **Pamela Manalo, Athena Ventures, 660 Madison Avenue, New York, NY 10021**.

RESEARCH ASSOCIATE

Amgen, the world leader in biotechnology, seeks a Research Associate to join our growing facility in **Thousand Oaks, CA.**

Working in our Pathology department, the selected individual will conduct laboratory-based research in the discovery and development of agents active in bone metabolism. Qualified candidates will have a Bachelor's degree in the life sciences or related field and a minimum of 2 years' experience working in bone research. Experience with in vitro and in vivo models of bone remodeling is critical. The ability to maintain records, present findings and work well in a team environment is essential. Experience with histomorphometric analysis of bone is an advantage.

We value and encourage the diverse perspectives essential to the process of discovery.

At Amgen, your accomplishments will be rewarded. Our generous compensation and benefits package includes a retirement and savings plan, an on-site fitness center and 3 weeks' vacation. For immediate consideration, mail your resume to: **Amgen, Staffing, Job Code: TPSC, P.O. Box 2569, Thousand Oaks, CA 91319-2569. E-mail: jobs@amgen.com** Consult our on-line Job Bulletin Board at amgen.bio.com for information on other career opportunities available at Amgen. Principals only, please.

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Research Position in Applied Cell Culture

You will participate in a team effort bridging between the drug discovery program teams and the development bioprocess expertise to produce or outsource biological reagents. These cell-derived reagents are critical in the development and testing of product hypotheses. Duties will include implementing appropriate isolation and purification processes for these reagents.

We require strong engineering skills. Familiarity with state-of-the-art, intermediate scale protein purification methodology would be a plus along with experience in larger scale mammalian cell culture and automation. A BS in the Life Sciences or Engineering with several years of experience is desired.

When you consider our record financial performance and commitment to innovation, you'll see that the global Monsanto Company is positioned for success. We can offer a competitive compensation package and exceptional career opportunity. For consideration, please send your resume to: **Monsanto Company, Attn: LMH, Human Resources Dept. ACCRW, 800 N. Lindbergh, Mail Zone C2NB, St. Louis, MO 63167.** An Equal Opportunity Employer M/F/D/V.

SEARLE

SCIENTISTS



Collagen Corporation, a progressive and growing biomedical company, has several exceptional opportunities for Scientists to join our leading team in the San Francisco Bay Area.

Research Scientist III Polymer Chemist

Requires a PhD in chemistry or polymer chemistry with 5 years' postdoctoral experience demonstrating synthetic organic chemistry expertise and strong bench top synthesis skills. Selected candidate will work with hydrogels and composites and be involved in formulation activities.

Research Scientist III/Sr. Scientist Polymer Chemist

Your PhD in organic chemistry or polymer chemistry must be supported by 5-10 years of industry experience; large-scale synthesis and manufacturing experience a plus. Supervisory skills, pilot scale-up background, and experience in the synthesis of organic polymers are required.

Group Head - Soft Tissue

You will lead and develop our soft tissue research efforts. This will require a PhD and/or MD, preferably in immunology, with strong technical skills and leadership talents. You must be an articulate spokesperson who is capable of addressing quality and product development issues and interfacing with the FDA to discuss immunological topics.

Sr. Research Scientist-Biology

You must have a PhD with 10-12 years of experience in the orthopedic medical device industry. Your understanding of biodegradable materials should include a knowledge of collagen as a biomaterial. Hands-on laboratory skills and the ability to mentor junior staff members are also required.

Biochemist

You will need a PhD in Biochemistry and 5 years' postdoctoral experience with proven skills working with enzymes. The creative team player we select must also possess strong cell culture and protein purification techniques.

Located in Palo Alto, Collagen offers an attractive compensation package. For consideration, send your resume to our contract recruiter at: **Judy Brown & Associates, 656 Cedar Street, San Carlos, CA 94070, or fax (415) 594-9757.** We are an equal opportunity employer. M/F/D/V.



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POSITIONS OPEN

DEVELOPMENTAL BIOLOGY FACULTY POSITION

Vanderbilt University School of Medicine

Vanderbilt University School of Medicine invites applications for a tenure-track faculty appointment at the **ASSISTANT or ASSOCIATE PROFESSOR** level in the area of developmental biology. The successful candidate will join several vigorous developmental biology groups that are studying signal transduction, transcriptional regulation, axonal guidance, gametogenesis, embryonic patterning, and morphogenesis. These groups employ an interspecies approach to developmental analysis, and work with *C. elegans*, *Drosophila*, Ascidians, zebrafish, *Xenopus*, chick, and mouse. Vanderbilt offers a collegial and interactive environment with a strong graduate program. We seek a biologist whose research program creatively addresses fundamental problems in animal development. Applicants should submit a curriculum vitae, a concise statement of research accomplishments and future objectives, and the names and addresses of three referees by December 15, 1996; to:

Chair,
Developmental Biology Search Committee
Vanderbilt University School of Medicine
C-2310 Medical Center North
1161 21st Avenue S.
Nashville, TN 37232-2175

Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL BIOLOGIST

Tenure-track position starting July 1997 at the **ASSISTANT PROFESSOR** level and in the area of animal developmental biology. The successful candidate is expected to develop and maintain an active teaching and research program that includes study at higher levels of organization, and to demonstrate appropriate training and experience. Teaching responsibilities include an introductory core course in physiology and development, an upper level elective course in developmental biology, and an advanced course in the area of specialty. Commitment to research, with undergraduate involvement, is expected. *Franklin & Marshall College is committed to cultural pluralism through the hiring of minorities and women, and encourages all individuals to apply (Equal Opportunity Employer/Affirmative Action).* Send curriculum vitae, teaching and research statements, and graduate and undergraduate transcripts by October 1, 1996, and have three reference letters sent to: Professor Richard Fluck, Chair, Developmental Biology Search Committee, Department of Biology, Franklin & Marshall College, P.O. Box 3003, Lancaster, PA 17604-3003. Telephone: 717-291-4118; FAX: 717-399-4548.

ASSISTANT PROFESSOR STRUCTURAL BIOLOGY DEPARTMENT OF MOLECULAR BIOLOGY PRINCETON UNIVERSITY

The Department of Molecular Biology at Princeton University invites applications for a tenure-track position in structural biology and biochemistry at the **ASSISTANT PROFESSOR** level. Exceptional senior level scientists may also be considered. Candidates must have a Ph.D. degree or equivalent and several years of postdoctoral experience.

Qualified applicants should send a curriculum vitae, a summary of research interests, and three letters of reference to:

Structural Biology Search Committee
Department of Molecular Biology
Princeton University
Princeton, NJ 08544

Application deadline: December 1, 1996.

Princeton University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW POSITIONS

POSTDOCTORAL POSITIONS, available immediately: molecular mechanisms of transcriptional regulation, tumor suppression gene function. Ph.D., M.D. degree, extensive molecular and cell biology experience, expertise in transcription, regulation of cell growth, apoptosis. Please send a curriculum vitae, a brief summary of research experience, desired starting date, and the names of three references to: Dr. Thomas F. Deuel, M.D., Division of Growth Regulation, Beth Israel Hospital, Harvard Medical School, 330 Brookline Avenue, RE-213, Boston, MA 02215. Beth Israel Hospital/Harvard Medical School is an Equal Opportunity Employer.

POSITIONS OPEN

GROSS ANATOMIST

The Department of Anatomy and Cell Biology, University of Saskatchewan invites applications for a tenure-track faculty appointment at the rank of **ASSISTANT PROFESSOR**, effective July 1, 1997. Areas of research in the Department include cell, molecular, and developmental biology; kinesiology; and neurobiology. The appointee must have postdoctoral training and a strong research program in one of these or related areas.

Applicants should have experience in teaching human gross anatomy and ideally neuroanatomy. The appointee will instruct medical and undergraduate life science students and contribute to graduate courses/training in his/her research specialty. Candidates with an interest in the design and implementation of computer-aided learning in clinical gross anatomy are encouraged to apply.

An application, including curriculum vitae, names of three referees, and a statement of previous teaching experience and research interests should be submitted by October 31, 1996, to:

Dr. G. D. Burkholder
Department of Anatomy and Cell Biology
College of Medicine
University of Saskatchewan
107 Wiggins Road
Saskatoon, Saskatchewan S7N 5E5
Canada

The University is committed to Employment Equity. Members of designated groups (women, aboriginal people, people with disabilities and visible minorities) are encouraged to self-identify on their applications.

The Department of Biochemistry, Duke University Medical Center invites applications for a **FACULTY** position in the area of structural biology. The candidates will be expected to establish strong, independent research programs and to participate in departmental teaching. Send résumé, summary of research interest, and three letters of reference to: Christian R. H. Raetz, Department of Biochemistry, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer. Consideration of applications will commence in October 1996.

THEORETICAL BIOLOGIST

Xenometrix, Inc. sells and performs assays that provide mechanistic information about cellular responses to compounds. We are looking for a creative, energetic individual to join a multidisciplinary team who has expertise (molecular biochemistry, biostatistics, numerical analysis) in multivariate data analysis to develop predictive models. Xenometrix is a dynamic company, situated in the heart of the Rocky Mountains, that offers a competitive compensation package with benefits including a stock option plan. Send detailed curriculum vitae to: Xenometrix, Inc., 2860 Wilderness Place, Box PGRD, Boulder, CO 80301; Email: netadmin@xeno.com.

The Department of Biochemistry, Duke University Medical Center invites applications for a faculty position at the level of **ASSISTANT PROFESSOR**. We welcome candidates in all areas. The candidates will be expected to establish strong, independent research programs and to participate in departmental teaching. Send résumé, summary of research interest, and three letters of reference to: Christian R. H. Raetz, Department of Biochemistry, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer. Consideration of applications will commence in October 1996.

POSTDOCTORAL POSITIONS

Applications are invited for two **POSTDOCTORAL** positions to study cellular and molecular biology of human melanocytes and melanoma. Specific areas of research include intracellular sorting and targeting, melanosome biogenesis and its relationship to antigen processing pathways, regulation of melanocyte differentiation and melanoma metastasis. Applicants with recent Ph.D. and experience in immunology, cell biology or molecular biology will be preferred. Send curriculum vitae and names of three references to: Vijayasaradhi Setaluri, Ph.D., Departments of Dermatology and Cancer Biology, Bowman Gray School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157-1016. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

The Carlsbad Environmental Monitoring & Research Center, New Mexico State University, has an opening for **SENIOR SCIENTIST**-Environmental Chemistry. Résumé review begins September 13, 1996. Qualifications: Ph.D. in environmental chemistry, radiochemistry, or related field; five years of laboratory and field experience. Preference given to candidates with experience in aerosol science and chemistry. Responsibilities: Develop and implement environmental chemistry program, field sampling, and analysis plans; supervise operations of environmental chemistry laboratory and its personnel; develop specifications for equipment and supplies; determine and complete appropriate analytical techniques for submitted samples; prepare written summaries of research for various reporting requirements and publication; establish contacts and leverage resources to promote new research initiatives; develop program data quality objectives, quality assurance requirements, and standard operating procedures. Salary will be commensurate with qualifications and experience. Please send letter of interest; detailed résumé, and the names, telephone numbers, and affiliation of four references to: Dr. Marsha Conley, Deputy Director, Carlsbad Environmental Monitoring & Research Center, 800 W. Pierce, Carlsbad, NM 88220. Telephone: 505-234-5501. Position is contingent upon funding. New Mexico State University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE RESEARCH SCIENTIST:

Need person with Ph.D. in Biochemistry or Chemistry, with expertise in the analysis and structural elucidation of complex carbohydrates, enzymology, and microbiology, or equivalent. Desirables: Experience in polysaccharide and protein purification, enzyme assays and kinetics, and bacterial mutants and extracellular polysaccharides; skills in HPLC, GC/MS, NMR, MALDI-TOF, and spectroscopy; skills in laboratory management; experience using Macintosh computers and in the interfacing of IBM pcs to laboratory instruments. Salary negotiable. Contact: Dr. Rex Montgomery, University of Iowa, Biochemistry, BSB, Iowa City, IA 52242. Telephone: 319-335-7897. University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

POSTDOCTORAL RESEARCH

The John Wayne Cancer Institute has immediate openings for two **POSTDOCTORAL** positions with research on 1) lipid second messenger/PKC signal transduction in human breast cancer and 2) reversal of multidrug resistance in human cancer. Both projects have strong emphasis on tamoxifen and anticancer drug design. Requires recent Ph.D. or M.D./Ph.D. and experience in cell biology/cell culture, protein kinases, lipid biochemistry, immunocytochemistry, and drug screening.

Competitive salary/benefits package. Please submit résumé with cover letter to: Dr. Myles C. Cabot, Chief, Breast Cancer Research Program, John Wayne Cancer Institute at Saint John's Hospital and Health Center, 2200 Santa Monica Boulevard, Santa Monica, CA 90404. An Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS AT HARVARD MEDICAL SCHOOL

Available immediately to study the molecular and cell biology of kidney development and genetic diseases. Successful applicants should have a background in molecular biology and either biochemistry, cell biology, development or receptor-ligand studies.

Please send curriculum vitae to: Dr. J. Zhou, Thorn 612, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. Telephone: 617-278-0331; FAX: 617-732-6392; Email: zhou@mberr.harvard.edu. Women and minorities are encouraged to apply. Brigham and Women's Hospital is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is currently available to study glycosyltransferases using molecular biology and protein chemistry techniques. Send curriculum vitae and names of two references to: Bruce Macher, Department of Chemistry and Biochemistry, San Francisco State University, 1600 Holloway Avenue, San Francisco, CA 94132. FAX: 415-338-2384. Email: macher@sfsu.edu.



The mission of Abilene Christian University is to educate students for Christian service and leadership throughout the world.

Faculty Search

Full-time position for Fall 1997

Assistant professor of biology. Ph.D. with post-doctoral experience is preferred.

Requirements include: either a botanist or an ethologist/general biologist with expertise using molecular biology in research. The successful candidate must be able to demonstrate a commitment to excellence in education by teaching in both the classroom and in an undergraduate research environment.

Abilene Christian University is a private comprehensive university, enrolling 4,600 students, and associated with the Church of Christ. We are dedicated to superb academics within a community of Christian scholars and students.

A commitment to excellence in the biology department is demonstrated by its graduates having earned more than 114 Ph.D. and more than 452 M.D. and D.D.S. degrees. This track record places us in the top 10 percent of Category II private universities in the nation for the number of doctorates earned in the life sciences, and best among Category II private universities in Texas.

Applications, with resume and references, will be received until January 1, 1997.

Address inquiries to: Dr. Dan Brannan, Associate Dean, College of Arts and Sciences, ACU Station, Box 7868, Abilene, Texas 79699-7868.

ACU does not discriminate on the basis of race, color, age, sex, handicap, national or ethnic origin in employment opportunities, in keeping with applicable state and federal laws. All applicants for these positions must be active members of the Church of Christ and deeply committed to service in the field of Christian higher education.

Director, Developmental Biology Children's Hospital University of Cincinnati

Applications are invited for the position of Director of Developmental Biology and Albert Sabin Professor of Pediatrics to lead a well-established program in molecular and developmental biology.

Candidates will be expected to direct their own outstanding research program, lead the Division of Developmental Biology (a 10 member Ph.D. faculty with primary focus on the molecular biology of mammalian development), participate in a well-established graduate program in developmental biology, and interact with research activities in developmental sciences at the Children's Hospital Research Foundation and the University of Cincinnati College of Medicine. Candidates will have an M.D. and/or Ph.D. degree and an internationally recognized program in developmental molecular biology. Outstanding support facilities are available for the Director and the program.

Send a letter of interest and curriculum vitae to **Jeffrey A. Whitsett, Associate Chair of Pediatrics, c/o Search Committee, Children's Hospital Medical Center, Division of Pulmonary Biology, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.**



ADVANCES At ABGENIX

ABGENIX, a subsidiary of **CELL GENESYS**, is focused on the development and commercialization of human antibodies to treat a wide range of medical indications, including inflammation, autoimmune disorders, cancer, and other serious diseases. Our core technology generates human antibodies to treat diseases and disorders which involve human antigens as part of the disease process. Currently, we are seeking the following individuals to advance our efforts aimed at a number of significant therapeutic targets.

Sr. Research Associate

As a member of our preclinical biology group focused in the areas of cellular biology and immunology, you will be responsible for developing and carrying out various immunological and biological assays for characterization of monoclonal antibodies. This will include assessing the *in vivo* therapeutic efficacy of monoclonal antibodies in animal models. Your Master's in immunology, biochemistry, or a related field should be supported by a strong background in assay development with at least 5 years' research and product development experience on *in vitro* bio-assays and animal models of inflammation and cancer.

Research Associate

Working as part of a small, interactive team involved in the generation and characterization of fully human monoclonal antibodies for a range of potential therapeutic targets, you will participate in the development of human monoclonal antibody core technology. Minimum requirements include a BS degree in cellular immunology, biology, or related field, along with 3 years of experience demonstrating strong tissue culture techniques. Proven immunoassay, ELISA and hybridoma technology experience is a must.

We offer a competitive salary, excellent benefits and equity participation in one of the world's most desirable locations. For immediate consideration, send /fax your resume with cover letter telling us about yourself to: Human Resources, ABGENIX, Human Resources, 324 Lakeside Dr., Foster City, CA 94404, Fax: (415) 349-4785. We are an equal opportunity employer.

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At Sequana Therapeutics, located in La Jolla, California, we're dedicated to assisting in the development of new diagnostics and therapeutic products through the discovery and characterization of genes. We currently have intriguing opportunities available in the following areas:

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SR. SCIENTIST – Genetic Assay Development

You will be part of a team of investigators who are developing automated high-throughput assays for specific disease targets. Successful candidates will possess a Ph.D. or equivalent in molecular biology and 3-5 years' relevant experience, a strong background in mutation detection methods, experience with automated genotyping and sequencing, as well as the ability to evaluate and implement relevant non-gel based technologies. Code: Sci/SSDIAG

LIMS SUPPORT ADMINISTRATOR

You will be responsible for the organization, execution and day-to-day support of the Laboratory Information Management System (LIMS) in each of the laboratories. Our LIMS system is integral to the operation of our genetics and DNA sequencing laboratories, developed using Macintosh and Sybase RDBMS technologies. Successful candidates will possess relevant laboratory experience, significant Macintosh computer experience and excellent communication skills. A minimum of a MS in a scientific field is required. Code: Sci/LIMSA

LABORATORY DATABASE ENGINEER

You will contribute to the development of our Laboratory Information Management System (LIMS). Our LIMS system is integral to the operation of our genetics and DNA sequencing laboratories. Successful candidates will possess expertise in Sybase RDBMS and advanced SQL skills. A background in the development of laboratory information management tools required. A minimum of a MS in either Biology or Computer Science is required. Code: Sci/LIMLDE

At Sequana Therapeutics, you'll enjoy an excellent salary and benefits package, with stock options and relocation assistance. If you share our dedication to genetic research please mail or fax your CV to: Sequana Therapeutics, Inc., Attn: HR-(code), 11099 North Torrey Pines Road, Ste. 160, La Jolla, CA 92037. FAX: (629) 452-4378. Equal Opportunity Employer.



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Oct. 5: 11 am - 3 pm

To pre-register, please submit your resume or CV via fax: (202) 289-6742, or via e-mail: bioscience@aaas.org. Please remember to bring multiple copies of your CV or resume with you to the Career Fairs, a copy will be necessary to register. Admission to the event is free.

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Young scientists are invited to make challenging research proposals within the fields of the seminar. The scientific committee decides—based on a two-page exposé—which proposals are accepted for an oral or poster presentation. The most outstanding oral contributions are honoured by awards totalling DM 20,000.

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Postdoctoral fellowships (1 to 2 years) to be used at suitable Max-Planck-Institutes are awarded for the most original research proposals at the end of the seminar. In applying for such a fellowship, a short CV should be submitted in addition to a two-page exposé.

Admission to the seminar will be limited and will be decided upon by the scientific committee.

Deadline for applications and for submission of the exposé: 2 October 1996

For further information, please contact:

Prof. Dr. Wolfgang Baumeister, Max-Planck-Institut für Biochemie, D-82152 Martinsried, Germany

Fax: ++49 (89) 8578-2641 Email: baumeist@biochem.mpg.de

Associate Editor

An editorial position at **SCIENCE** is available for a Ph.D. scientist with a broad range of interests and research experience in one or more of the following areas: molecular biology, biochemistry, neuroscience, and/or developmental biology. We are seeking someone with at least 2 or 3 years of postdoctoral experience in the life sciences and publications in peer-reviewed journals. Editors have varied responsibilities including solicitation, selection, and editing of manuscripts. Previous editorial experience is not required. This is a full-time position in either our Washington, DC, or Cambridge, UK, office.

Please send resume and list of publications with cover letter and salary requirements to:

Mr. Gregory Stokes
AAAS
1200 New York Avenue, N.W.
Washington, DC 20005



OPEN COMPETITION

**RESEARCH ON BOVINE
 SPONGIFORM ENCEPHALOPATHY
 DIAGNOSIS IN CATTLE**

The Ministry of Agriculture, Fisheries and Food intends to commission research through open competition to augment the current research programme on the diagnosis of Bovine Spongiform Encephalopathy.

Proposals for research projects on BSE diagnosis are invited for consideration by the Ministry.

Under the current programme, new diagnostic tests are in the process of validation but the need remains for novel approaches to the development of highly specific, sensitive diagnostic tests for the detection of pre-clinical infection in cattle and for the differential diagnosis of suspect clinical cases. The available diagnostic tests for BSE that have been validated can only be used post-mortem and are unsuitable for wide-scale application on farms or in abattoirs.

Proposals are invited from centres with recognised expertise which can be applied to BSE diagnosis. Collaboration with groups with experience of research in this field would be beneficial.

For further details and an application form, write quoting reference YD02 to:

Room G15, VSU, Chief Scientists Group
Ministry of Agriculture, Fisheries and Food
Nobel House, 17 Smith Square, London SW1P 3JR
Telephone: 0171 238 5571
Fax: 0171 238 6464

Closing date for receipt of completed proposals: 13 October 1996

Proposals received after this date will not be considered under this competition.



POSTDOCTORAL RESEARCH FELLOWSHIP: VASCULAR AND CARDIAC DISEASES

At the Parke-Davis Pharmaceutical Research Division of Warner-Lambert Company, inspired science and a strategy of innovation has made us an international leader in the pharmaceutical industry. Our team members are encouraged to pursue discovery together—and explore all the possibilities of science.

This two year postdoctoral position is available immediately to study thrombosis and the utility of antithrombotic strategies in knockout and transgenic mice. The selected candidate will develop in vivo techniques for producing, measuring and modifying thrombosis in genetically engineered mice available through collaborators at the University of Michigan. The selected individual will develop skills in integrative biology and will work closely with colleagues concentrating on molecular biology.

Candidates must have a Ph.D. with a strong background in physiology, transgenic technology and in vivo studies using mice. Experience in biomedical engineering, pharmacology and thrombosis is preferred.

Members of our world-class pharmaceutical team enjoy competitive salaries, benefits and career growth potential. For consideration, please send or e-mail a resume and cover letter to: **Parke-Davis Pharmaceutical Research, Human Resources Department, Job Code: CJM-963165, 2800 Plymouth Road, Ann Arbor, MI 48105. E-mail: resume@aa.wl.com.**

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NEW JERSEY MEDICAL SCHOOL

FACULTY POSITIONS

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

The Department of Microbiology and Molecular Genetics seeks applications for a tenure-track position. We are looking for outstanding, highly motivated molecular biologists or geneticists who will develop independent research programs and participate in teaching graduate and medical students. While primarily looking to make these appointments at the level of Assistant Professor, distinguished applicants at senior levels will also be considered. We would especially like to consider candidates whose research expertise are in the areas of regulation in mammalian cells or bacterial pathogenesis.

The department has 17 full time faculty who carry out research in various aspects of microbiology and molecular genetics, including control of cell growth; cellular aging; transcriptional, post-transcriptional and translational regulation; mutagenesis; DNA replication and recombination; chromosome structure and segregation; and molecular pathogenesis of viruses, bacteria and trypanosomes.

New Jersey Medical School is part of the medical university of the state of New Jersey and is located in the University Heights section of Newark, NJ, minutes from both pleasant suburbs and downtown New York City.

Send a complete curriculum vitae, including future research plans, and arrange to have three letters of recommendation sent to **Dr. Harvey Ozer, Chairman, Department of Microbiology and Molecular Genetics (S), UMDNJ-New Jersey Medical School, 185 South Orange Avenue, Newark, NJ 07103-2714.** The UMDNJ is an Affirmative Action/Equal Opportunity Employer, m/f/d/v, and a member of the University Health System of New Jersey.

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Postdoctoral opportunity in nucleic acid chemistry

A postdoctoral position is available from October 1st 1996, for national or international scientist, to join our R&D group involved in nucleic acid probes development for diagnostic applications. The position will be for 18 months in our facilities located in Lyon, and the project will focus on modified nucleoside and nucleotide synthesis.

Qualified candidate should have a Ph.D. in Organic Chemistry or Biochemistry and relevant laboratory experience in the field of Nucleic Acid Chemistry. Self motivation and excellent communication skills are required.

For consideration, please send by mail or by fax a letter of application, two copies of curriculum vitae including the names and addresses of three references and publications list to :

bioMérieux - Human Resources - Philippe Donikian
69280 MARCY L'ETOILE - FRANCE
Tél. (33) 78 87 20 42 - Fax. (33) 78 87 21 92



bioMérieux

The Hong Kong University of Science and Technology

Department of Biology

FACULTY POSITION

The Hong Kong University of Science and Technology is a publicly-funded research university with strong graduate programmes. The Department of Biology is well-equipped with modern facilities and currently has 23 faculty members. Applications are invited for a faculty position in the area of Ecology/Marine Biology/Environmental Science/ Ecotoxicology.

Applicants must have a Ph.D. degree, postdoctoral experience, and the ability to establish an independent research programme.

Starting rank will depend on qualifications and experience. Salary will be very competitive, with annual salary within a range (currently under review) from US\$58,200 (minimum for Lecturer/Assistant Professor) to US\$129,100 (minimum for Professor). Generous fringe benefits including medical and dental benefits, annual leave, and children's education allowances are provided. Housing benefit and air passages are also provided where applicable. Initial appointments will generally be on 3-year contract terms; a gratuity of 25% of the total basic salary drawn will be payable upon successful completion of contract. Re-appointment will be subject to mutual agreement.

Applications indicating areas applied for, together with a curriculum vitae, a short statement on research interests, and the names and addresses of 3 referees should be sent to: **The Chair of Recruitment Committee, Department of Biology, Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong (Fax: (852) 2358-1559) before 30 November 1996.**

EUROPEAN CAREERS

A SCIENCE
Advertising Supplement

13 September 1996

Reach top European Scientists with your vacancy announcement in this annual Career feature!

DOUBLE BONUS DISTRIBUTION:

- This issue will be distributed to 24 European Universities.
- Extra copies will be distributed to the 12th European Congress on Multiple Sclerosis, 26-28 September, Copenhagen, Denmark.

EXTRA EXPOSURE:

- Free On-line advertising—All recruitment advertisements booked in this issue receive publication on SCIENCE Classified Advertising On-line!
- Global Career Opportunities Banner will highlight all European recruitment advertisements.

**ADVERTISEMENT BOOKING
DEADLINE:
27 August 1996**

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SCIENCE



Pharmaceuticals

Bioinformatics Scientist/ Molecular Biologist

Our Profile

Our Cardiovascular Diseases Department has a strong commitment to research on disease mechanisms in thrombosis, atherosclerosis, congestive heart failure and hypertension. It provides a dynamic international research environment, including several collaborative projects with outstanding academic groups, and encourages members to communicate their findings in publications and presentations at scientific meetings.

Your Task

You will collaborate with the bioinformatics core group in using novel sequence databases to discover potential new drug targets for the treatment of serious cardiovascular diseases.

Your Profile

Within the department you will interact with a highly motivated research team of biochemists, cell biologists, physiologists, molecular biologists and physicians. We are looking for someone who enjoys working in a multidisciplinary team and has the ability to looking for someone who enjoys working in a multidisciplinary team and has the ability to develop his/her own research interests. The ideal candidate will have a PhD and 3 - 10 years of post-doctoral experience in:

a) identifying differentially expressed genes with new methods such as representational difference analysis, differential display RT-PCR or SAGE and b) applying modern bioinformatic tools in the use and manipulation of relational databases.

Contact Address

If the above profile fits your background and experience and you are interested in this challenging position then please forward your full application documentation with a list of publications and the names of two referees to our Human Resources Department, attn. of Mr. W. Aschwanden, quoting reference As2103, F. Hoffmann-La Roche, CH-4070 Basel.

NZ Institute for
Crop & Food Research Ltd
A Crown Research Institute



Soil Chemist

Applications are invited from PhD scientists with experience in soil chemistry to join the soil science group of the New Zealand Institute for Crop & Food Research Ltd. Based at Lincoln, just outside Christchurch, this group carries out research into sustainable management of arable and vegetable producing soils in New Zealand. The group has built an international reputation in research on nutrient cycling, and the physical and biological fertility of cropping soils. The successful applicant will have a PhD in soil science (soil chemistry), preferably with postdoctoral experience. The appointee will develop and conduct research which enhances our understanding of the chemical fertility of arable and vegetable producing soils in New Zealand. Particular emphasis will be placed on management of soil nutrients to improve the efficient use of nutrients and minimise the detrimental effects of agriculture on the environment. The position is well supported with technical staff. Further details on the position, including an application form and job description, may be obtained from Dr Prue Williams, telephone 64 3 325 6400, fax 64 3 325 2074. Applications should quote vacancy no 96/23, and close at 4pm, 6 September, 1996. Written applications, enclosing a detailed C.V. and the name and address of three referees, should be sent to:

**The Personnel Officer, Crop & Food Research,
Private Bag 4704, Christchurch, New Zealand.**

Crop & Food Research Ltd promotes a policy of Equal Employment Opportunity.

MUSEUM RESEARCH SCIENTISTS FOR LAKE BIWA MUSEUM

Lake Biwa Museum, Japan, has several opportunities for talented research scientists to join the newly established museum specially emphasizing multidisciplinary research, extension and communication, information services, and exhibits on Lake Biwa and other large lakes in the world.

The following four posts are open for scientists having a doctoral degree in any of the following disciplines and some work experience in a museum, university or research institute. The successful candidates will engage in research activities as well as the museum management activities such as exhibits and public services. The birth dates of successful candidates will fall between April 2, 1950 and April 1, 1960.

- (1) International Limnological Studies
- (2) Bird Studies
- (3) Terrestrial Ecosystem Studies
- (4) Biodiversity Studies

Applicant should send:

- (1) Application form (the designated form is available at Lake Biwa Museum)
- (2) Curriculum Vitae
- (3) A list of publications (denote scientific as well as public publications)
- (4) Reprints of the publications denoted above (up to 10 publications)
- (5) An essay about how you can contribute to Lake Biwa Museum in the field of your specialty. The essay may be written in Japanese in up to 3,000 letters, or in English in up to 1,000 words.
- (6) At least one letter of reference.

These application forms by registered mail, marked "Application for Research Scientist," should be received by 20 September 1996. Employment starts from 1 December 1996. Salary according to qualifications and experiences (e.g., ¥234,600 per month for a new graduate) with addition of several types of allowance.

Further details are available from:

**General Affairs Department, General Affairs Division
Lake Biwa Museum, Shiga Prefecture
1091 Oroshimo-cho, Kusatsu-shi, Shiga 525, Japan
Tel: +81-775-68-4811
Fax: +81-775-68-4848
E-mail: director@lbm.go.jp**

Showcase Your Scientific Career Opportunities On-line for Two Months

Scientists as Entrepreneurs in Biotech

Beginning on September 6, the exciting topic of Scientists as Entrepreneurs/Biotech will be discussed in a two-month interactive career forum on SCIENCE's Next Wave, a new on-line publication. During that time, your organization's logo will appear on the forum and will be linked to your scientific career opportunities or your homepage. Because this is on-line, you will have the flexibility to change the career opportunities posted throughout the two-month period. Only SCIENCE brings you this opportunity to make information about careers at your organization accessible to the thousands of scientists who visit SCIENCE's World Wide Web site every day.

**For more information
contact: Janis Crowley**

**Phone: (202) 326-6532; Fax:
(202) 289-6742**

Science's
next wave
<http://sci.aaas.org/nextwave>

**Boehringer
Ingelheim**


Biological Research

Two *in vivo* NMR scientists Ph. D. physicist and BS/MS engineer

We rank among the leading research based companies of the chemical-pharmaceutical industry.

We and our employees see ourselves as a worldwide team.

We operate internationally according to common principles.

It is our ambition to offer our customers value through innovation which will be our competitive advantage.

Join us!

The Department of Biological Research is looking to fill two newly created positions in the neuropharmacology group. We are seeking a Ph. D. physicist and a BS/MS engineer. The appointment of Ph. D. physicist is initially for three years.

Candidates are encouraged to apply for either of these two positions depending on their qualifications. The two specialists should have comprehensive biomedical experience with experimental *in vivo* NMR systems.

Our research in Ingelheim concentrates on the areas of stroke and neurodegenerative diseases. The successful applicants will work in a well equipped, multidisciplinary research team applying modern MRI/ MRS techniques to our drug discovery programmes.

The scope of activities includes

- Operation and support of *in vivo* MRI/MRS systems and design of experiments in association with neuropharmacologists

- Programming and modification of impulse sequences for diffusion/perfusion, T₂, echo planar, chemical shift, functional imaging and spectroscopy
- Writing or adaption of computer programs for analysing NMR data
- Preparation of internal reports and international publications.

We expect good organizational talents and the ability to work in a team as well as excellent oral and written communication skills in English. A knowledge of German would be helpful.

We offer a competitive salary accompanied by a full range of benefits.

Interested applicants should send a detailed CV and description of previous research activities to

Boehringer Ingelheim KG
Personnel Department, Klaus Peter Bracker
D-55216 Ingelheim am Rhein

ORGANIC SYNTHESIS

UNIVERSITY OF FRANKFURT (MAIN),
GERMANY

INSTITUTE OF ORGANIC CHEMISTRY

invites applications for a Tenure
Position at the level of a
FULL PROFESSOR

Applicants with a Ph.D. should have research expertise in chemical synthesis and should preferably be engaged in methodological development (e.g., combinatorial chemistry) and use of receptor-directed chemical synthesis for controlling biological functions with synthetic ligands.

The successful candidate will join a group of faculty members and he/she will take part in the program "Synthesis of Bioactive Compounds" to which the institute is committed. The facilities for and expertise in X-ray crystallography, NMR spectroscopy, molecular modelling, mass spectrometry, and biological synthesis are available. Applicants are expected to participate in the teaching duties in Organic Chemistry at all University levels.

Applications stating relevant personal details, including details of qualification and experience should be received not later than September 30, 1996, by **The Dean of the Department of Chemistry of the Johann Wolfgang Goethe Universität, Marie Curiestr. 11, D-60439 Frankfurt am Main, Federal Republic of Germany. Fax: +49/69/798-29494.**

University of Bristol Bristol Heart Institute



Post-Doctoral Fellowship Characterisation of Degradative Enzymes Involved in Atherosclerotic Plaque Rupture

Applications are invited for a two year Post-Doctoral Fellowship, in collaboration with Pfizer Central Research, which will start in October 1996. The work will be carried out under the supervision of Dr Christopher Jackson in the Bristol Heart Institute, which is a newly established University Research Centre within the Faculty of Clinical Medicine of the University of Bristol. Part of the study (approximately 3 months) will be conducted at Pfizer. Applicants should have, or expect to achieve, a PhD in cell biology, biochemistry or a related subject. The project will investigate the proteins that form the fibrous caps of human atherosclerotic plaques, and the enzymes that degrade these proteins and cause plaques to become unstable and to rupture. The techniques to be employed will include cell culture, protein chemistry, enzymology and histochemistry. The post will be funded for two years at an initial annual stipend of £19,848 and an allowance will be paid when the Fellow visits Pfizer in Sandwich, Kent.

For informal discussions on the post please contact Dr Christopher Jackson (telephone 0117 928 3154; fax 0117 929 9737; email chris.jackson@bristol.ac.uk). For further details, telephone 0117 925 6450 (ansaphone after 5pm), minicom 0117 928 8894, email recruitment@bris.ac.uk, or write to the Personnel Office (EO), University of Bristol, Senate House, Bristol BS8 1TH, quoting reference E489. The closing date for applications is September 13th, 1996.

POSITIONS OPEN

MOLECULAR BIOLOGIST/ MOLECULAR GENETICIST

The University of Nevada, Reno invites applications for a 12-month tenure-track position at the level of **ASSISTANT PROFESSOR** in the Department of Biochemistry. We seek applications from individuals with research expertise in molecular processes underlying human disease. *Women and minority candidates are particularly encouraged to apply.* Candidates must hold a Ph.D. in a relevant area, have had a minimum of two years of postdoctoral experience, and possess a proven record of research achievement. She/he will be expected to develop an extramurally funded independent research program and to participate in the teaching program of the department. Salary will be commensurate with qualifications and experience. Appointment will be held jointly in the School of Medicine and the Nevada Agricultural Experiment Station. Applicants should submit a letter detailing their research interests and future plans, a complete curriculum vitae, and arrange to have three letters of recommendation sent by November 1, 1996. Send applications to: **Dr. Carol Condit, Search Committee Chair, Department of Biochemistry/200, University of Nevada, Reno, NV 89557-0014.** *Equal Opportunity Employer/Affirmative Action.*

The Entomology Department at Oregon State University seeks an internationally recognized systematist to become the Harold E. and Leona M. Rice Professor of Systematic Entomology. The position is available 1 July 1997, and appointment will be at the **ASSOCIATE** or **FULL PROFESSOR** level. Send letter of interest, curriculum vitae, two representative publications, and names of three referees by 30 October 1996, to: **Dr. T. D. Schowalter, Chair Search Committee, Entomology Department, Oregon State University, 2046 Cordley Hall, Corvallis, OR 97331-2907, USA. Telephone: 541-737-4733; FAX: 541-737-3643; Email: schowalt@bcc.orst.edu.** Enquiries also to: **Dr. P. C. Jepson, Department Chair, (same address and contact numbers) Email: jepsonp@bcc.orst.edu.** *Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.*

ACADEMIC SCIENTIST

The Divisions of Perinatology and Neonatology at The Evanston Hospital Corporation, Northwestern University Medical School are seeking a scientist at the **TENURE-TRACK** level to join the Perinatology Research Group. Candidates should have a Ph.D. in molecular biology or biochemistry, and have experience and interest in inflammation and mediator biology. Salary is commensurate with background and experience. Send curriculum vitae to: **Michael Caplan, M.D., Head, Division of Neonatology, Department of Pediatrics, Evanston Hospital, 2650 Ridge Avenue, Evanston, IL 60201.** *Evanston Hospital is an Affirmative Action/Equal Opportunity Employer.*

JOSLIN DIABETES CENTER/HARVARD MEDICAL SCHOOL POSTDOCTORAL POSITION

Applications are invited for a **POSTDOCTORAL POSITION** available immediately for NIH-funded studies of polyendocrine autoimmune diseases (diabetes, thyroiditis and adrenalitis) and diabetic kidney complications in mice. Candidates should have a Ph.D. or M.D./Ph.D. with zero to two years of postdoctoral experience in molecular biology or immunogenetics, and possess expertise in breeding studies, gene mapping, cloning, sequencing, and expression. Please send curriculum vitae and the names, addresses, and telephone numbers of three references to: **Dr. Masakazu Hattori, Section on Immunology and Immunogenetics, Joslin Diabetes Center, One Joslin Place, Boston, MA 02215. Email: hattorim@joslab.harvard.edu; FAX: 617-732-2589.**

POSTDOCTORAL POSITION available immediately in a group interested in gene therapy of neurological disorders to study regulated gene expression (see *J. Virol.*, 70: 62, 1996). Applicants should have an M.D. and a background in molecular genetics and/or construction of viral vectors. New lab space and an attractive collaborative environment are available. Salary will be in the range of 80,000 to 100,000 DM.

Send curriculum vitae, a description of research experience and interests, and the names and addresses of two academic referees to: **Dr. Werner Paulus, Division of Neuropathology, University of Erlangen Medical School, Krankenhausstr. 8-10, D-91054, Erlangen, Germany. FAX: +49-9131-85-4745.**

POSITIONS OPEN

CHIEF SCIENTIST/ORNITHOLOGIST CORNELL UNIVERSITY

The Cornell Laboratory of Ornithology seeks to fill a senior-level, core-funded position of Chief Scientist in its Bird Population Studies section immediately.

Candidates must have a Ph.D. in biology and strong knowledge of statistics, or a Ph.D. in statistics or computer sciences with a strong background in biology, preferably ornithology.

The successful candidate will design, organize, and implement large relational databases, analyze data, and write papers. Knowledge of UNIX-operating systems; proven ability to organize, handle and analyze large databases; and the ability to handle geographically organized data sets are essential. Extensive knowledge of SAS and ARC/INFO is preferred.

Submit curriculum vitae with three references by 15 September to: **André Dhondt, Cornell Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca, NY 14850. Email: AAD4@Cornell.edu.**

Cornell University is an Affirmative Action/Equal Opportunity Employer/Educator.

DATABASE PROGRAMMER

The ISN Science Support Group in Research Triangle Park, North Carolina, provides computational support to biomedical researchers at the National Institute of Environmental Health Sciences. We are looking for an innovative database programmer with the following experience: Relational databases, SQL, UNIX, C/C++ programming, C-shell programming, experience with internet servers, and HTML language. Biology or science background desirable. Four-year college degree required. Contact: **Maja Kricker, Ph.D., Email: kricker@niehs.nih.gov; Telephone: 919-361-9422, Extension 248; FAX: 919-361-9136.**

RESEARCH BIOLOGIST (GS-9/11): Starting salary range \$30,658-\$37,094. Seeking individual with experience in transgenic mouse technology and molecular biology. B.A./M.S. with two to five years of experience in mouse pronuclear microinjections, establishing mouse colonies, extraction and isolation of nucleic acids, PCR, and subcloning of DNA fragments. Send résumé or SF-171 to **National Institute of Dental Research Personnel Office, Building 31, Room 2C23, 31 Center Drive, MSC 2290, Bethesda, MD 20892-2290.** *US Citizenship required. Applications will be accepted through September 9, 1996.*

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

A **POSTDOCTORAL POSITION** is available to study enterokinase (enteropeptidase), the membrane bound protease that initiates the activation of the pancreatic digestive hydrolases. Projects include: 1) biosynthesis and membrane localization, 2) mechanism of zymogen activation, and 3) structural basis of substrate specificity. Recent Ph.D. with experience in cell biology, protein biochemistry or molecular biology is preferred. Send curriculum vitae, brief summary of research experience, and names of three references to: **J. Evan Sadler, M.D., Ph.D., Washington University School of Medicine, 660 S. Euclid Avenue, Box 8022, St. Louis, MO 63110. Email: esadler@imgate.wustl.edu.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITION BOSTON UNIVERSITY SCHOOL OF MEDICINE

POSTDOCTORAL POSITION available now for NMR and fluorescence studies of fatty acid transport in renal cells. Experience in either NMR or fluorescence methods required. *Position is supported by NIH Training Grant and requires US citizenship or green card.* Send curriculum vitae and three letters of recommendation to: **Dr. James A. Hamilton, Department of Biophysics, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118-4330.**

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

POSTDOCTORAL FELLOWSHIPS available to characterize the role of matrix metalloproteinases in tissue-invasive/morphogenetic programs (e.g., *PNAS*, 92: 3849, 1995; *Nature*, 375: 244, 1995; *JBC*, 271: 9135, 1996). Submit curriculum vitae and two letters of reference to: **Stephen J. Weiss, M.D., Upjohn Professor, University of Michigan, 5301 MSRB III, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0640.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS are available immediately to investigate the recently discovered binding sites (cClqR and gClqR) for the complement subcomponent Clq on human blood platelets and umbilical vein endothelial cells (*J. Immunol.*, 152: 5896-5901, 1994; *Semin. Hematol.* 31: 320-328, 1994). Ph.D. and/or M.D. cell biologists, molecular biologists, and immunologists are needed to elucidate the cellular and biological properties of both binding sites, their cellular and subcellular distribution, and their physiologic potential in thrombosis and inflammation.

Submit curriculum vitae and three references by mail or FAX to: **Dr. Ellnor I. Peersche, Professor of Pathology, Cornell University Medical Center, 525 East 68th Street, New York, NY 10021. FAX: 212-746-8192.** *Equal Employment Opportunity/Affirmative Action/Minorities/Females.*

POSTDOCTORAL AND PREDOCTORAL POSITIONS IN MOLECULAR PARASITOLOGY

Research on molecular/cellular biology of host/parasite interaction. Available on or shortly after September 1, 1996, in the Department of Medical and Molecular Parasitology at New York University School of Medicine. *Funded by an NIH Training Grant, the position is limited to U.S. citizens and permanent residents.* Send curriculum vitae and three letters of recommendation by FAX to: **Dr. Ruth S. Nussenzweig at 212-263-8116.** Candidates will be selected shortly.

POSTDOCTORAL POSITION

Position available immediately to analyze phosphorylation of opioid and dopamine receptors, and its role in drug addiction. Identify, isolate, and clone receptor kinases and phosphatases. Must have experience in molecular biology and protein biochemistry and/or receptor biology. Send curriculum vitae along with names of three references to:

**Professor Wolfgang Sadé
Department of Biopharmaceutical Sciences
School of Pharmacy
University of California San Francisco
San Francisco, CA 94143-0446**

POSTDOCTORAL POSITION BIOPHYSICS/CELL BIOLOGY

Position available immediately to study the physics of the cell membrane and the underlying cytoskeleton by novel optical techniques. Projects focus on polymer aspects of cell motility and elasticity and on nonlinear pattern formation in lipid membranes. Send curriculum vitae, including a brief summary of research experience and interests, and the names of three references to: **Dr. Josef A. Kas, Department of Physics, Center for Nonlinear Dynamics, Austin, TX 78712-1081. Email: kas@chaos.ph.utexas.edu.** *The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION is immediately available for a molecular biologist to study the regulation of expression of multidrug-resistance (MDR) related genes or the pro-apoptotic gene *bax* in MDR cancer cells. Recent Ph.D. plus significant experience in molecular biology required. Mail or FAX a curriculum vitae with the names, telephone and FAX numbers of three references to: **A. R. Safa, Ph.D., Department of Experimental Oncology, Hollings Cancer Center, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2850. FAX: 803-792-3200.**

POSTDOCTORAL POSITION available for a motivated individual to study gene expression in human neutrophils. Applicants should have a Ph.D., M.D., or equivalent and experience in molecular biology. This NIH grant-funded position is available immediately. Send curriculum vitae and three letters of reference to: **Dr. H. Hank Simms, M.D., Department of Surgery, Brown University, Rhode Island Hospital, APC-103, 593 Eddy Street, Providence, RI 02903.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH POSITION is available immediately at the University of Pennsylvania to study Pax and Hox transcription factors in murine cardiac development and myogenesis. Experience in molecular biology and development required. Send a curriculum vitae and three references to: **University of Pennsylvania, c/o Dr. Jonathan Epstein, 433 Curie Boulevard, 809 Stellar-Chance Labs, Philadelphia, PA 19104-6100. FAX: 215-573-2094.**

POSITIONS OPEN

DNA REPAIR AND RECOMBINATION University of New Mexico School of Medicine

Two **POSTDOCTORAL** positions are available to study DNA repair and recombination in yeast (*Mol. Cell. Biol.*, 16: 2951, 1996) and/or mammalian cells (*Mol. Cell. Biol.*, 14: 391; 14: 400, 1994). Projects include studies of DNA damage and mismatch repair as influenced by transcription chromosomal environment. Positions are NIH-funded and available immediately. Candidates must have experience in molecular biology or biochemistry; cell culture experience desirable for mammalian cell projects. Qualified candidates should send a curriculum vitae, a statement of research interests, and the names and telephone numbers of three references to: **Dr. Jac A. Nickoloff, Department of Microbiology and Immunology, University of New Mexico School of Medicine, Albuquerque, NM 87131.** For best consideration send in information by October 23, 1996. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available in studies of reproductive biology. Faculty interests: initiation of human parturition, fetal membrane structure/function, endometrial development and function, implantation and menstruation, steroid synthesis and metabolism. All appropriate scientific approaches employed: physiological, biochemical, and molecular. M.D. or Ph.D. required. Positions available immediately. Send curriculum vitae and references to:

**M. Linette Casey, Ph.D. or
Paul C. MacDonald, M.D.,
Green Center for Reproductive Biology Sciences,
The University of Texas Southwestern
Medical Center at Dallas,
5323 Harry Hines Boulevard,
Dallas, TX 75235-9051.
FAX: 214-648-8683**

Email: casey@grnctr.swmed.edu or
macdonald@grnctr.swmed.edu.

Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to perform and help direct NIH-funded research on molecular mechanisms of ischemic brain injury, with emphasis on mitochondrial bioenergetics and oxidative stress. Experimental paradigms include the use of clinically-relevant animal models as well as cell culture models of delayed neuronal death. The goals of the laboratory range from development of clinically-feasible therapeutic interventions to understanding the mechanism by which *bcl-2* protects against ischemic neuronal death. The successful applicant will have some background in free radical biochemistry, bioenergetics, or cell calcium metabolism and a productive track record. Send curriculum vitae and names of three references to: **Dr. Gary Fiskum, George Washington University School of Medicine, Washington, DC 20037. FAX: 202-994-8974; Email: fiskum@gwis2.circ.gwu.edu.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION MOLECULAR MYCOLOGY GEORGETOWN UNIVERSITY

A position is available to study host/pathogen interactions and the molecular basis of virulence in the fungal pathogen *Candida albicans*. A strong background in genetics, molecular genetics, and biochemistry is desirable. Candidates with experience in bacterial pathogenesis are especially encouraged to apply. Send curriculum vitae and names and addresses of three references to: **Dr. William A. Fonzi, Department of Microbiology and Immunology, Georgetown University, 3900 Reservoir Road, NW, Washington, DC 20007-2197.** *An Affirmative Action/Equal Opportunity Employer.*

SHORT-TERM TRAINING FELLOWSHIPS IN COMPUTATIONAL MOLECULAR BIOLOGY

Available at the BioMolecular Engineering Research Center at Boston University. Housing and domestic travel support provided for one to three weeks. Fellowships open to **GRADUATE STUDENTS, POSTDOCTORAL FELLOWS, AND SENIOR RESEARCHERS** for introductory training and/or collaborative research in genetic sequence analysis, protein structure prediction and/or molecular genetic database support. Preference given to those with a well-defined computational or informatics problem. Send curriculum vitae and description of proposed analysis problem to: **Tom Graf, BioMolecular Engineering Research Center, Boston University, 36 Cummington Street, Boston, MA 02215.**

POSITIONS OPEN

NEUROSCIENTISTS Bowman Gray School of Medicine of Wake Forest University

The Department of Neurobiology and Anatomy invites applications for two tenure-track faculty positions. Successful candidates will have **POSTDOCTORAL** experience and will be expected to maintain an independent and externally funded research program that complements current faculty interests. These include: sensory, multi-sensory and sensorimotor integration, neural development and plasticity and pain. Applicants using systems, cellular, and/or molecular approaches will be considered. Send curriculum vitae, research description, and three letters of recommendation to: **Neuroscientist Search Committee, Department of Neurobiology and Anatomy, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC 27157-1010.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL/RESEARCH ASSOCIATE FELLOWS

Excellent opportunity exists for two qualified individuals to carry out research in a supportive academic environment. The successful candidates should have a Ph.D. or an M.D. degree and knowledge of molecular/cell biology. The NIH-funded research projects are focused on atherogenesis and signaling through G-proteins mechanisms. The incumbents will work in the laboratory of **Ishaihu Shechter, Ph.D., Chair, Department of Biochemistry, F. Edward Herbert School of Medicine, Uniformed Services University of the Health Services.** Excellent benefits. To apply, send curriculum vitae and names and telephone numbers of three references to: **Attention: PL2960226 & 227, HJF-Human Resources Department, 1401 Rockville Pike, Suite 600, Rockville, MD 20852.** Email: hr@mail.hjf.org. *Affirmative Action/Equal Opportunity Employer.*

FUNGAL GENOMICS POSTDOCTORAL POSITION

Available November 1 at the Fungal Genome Resource for someone with several years **POSTDOCTORAL EXPERIENCE** in molecular genetics. Salary commensurate with experience. Work involves participating in a physical mapping project of *Neurospora crassa*. Some interest in bioinformatics desired. Send curriculum vitae and two letters of reference by October 1 to:

**Dr. Jonathan Arnold
Genetics Department
University of Georgia
Athens, GA 30602
FAX: 706-542-3910**

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION UNIVERSITY OF MIAMI DEPARTMENT OF PATHOLOGY

The Department of Pathology at the University of Miami currently has an opening for a **POSTDOCTORAL** candidate. The available position is in the laboratory of experimental neuropathology focusing on CNS trauma, degenerative diseases, cell swelling/volume regulation, ion and neurotransmitter transport, and metabolic encephalopathies. Background in immunohistochemistry, *in situ* hybridization and molecular biology preferred. Send curriculum vitae, statement of research accomplishments/interests, and the names of three references to: **Dr. Michael D. Norenberg, Department of Pathology (D-33), University of Miami School of Medicine, 1611 NW 12th Avenue, Miami, FL 33136.** *University of Miami is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately to study oxidative stress responsive genes important in breast cancer. Experience in molecular techniques essential. Background and experience in free radical biology and/or differential display desirable. Send curriculum vitae and names, telephone, and Email numbers of three references to: **Dr. Amy Fulton, Department of Pathology, University of Maryland, 10 South Pine Street, Baltimore, MD 21201.**

POSTDOCTORAL POSITION YALE

To study recombination and regulation of gene expression in EBV-transformed mammalian B cells. Please send curriculum vitae and three letters of reference to: **Dr. Nancy Maizels, Department of Molecular Biophysics and Biochemistry, Yale University, 266 Whitney Avenue, New Haven, CT 06520-8114.**

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study Btk and Emt tyrosine kinases. Experience in molecular and/or cell biology is preferred. Send curriculum vitae and references to: **Toshiaki Kawakami, La Jolla Institute for Allergy & Immunology, 10355 Science Center Drive, San Diego, CA 92121. FAX: 619-558-3526; Email: toshi_kawakami@liai.org.**

SYMPOSIUM

SCIENCE IN THE 21ST CENTURY

The Korean Science and Engineering Foundation (KOSEF) will celebrate 20 years of operation in 1997. To mark this occasion, a symposium will be held at the Sheraton Walker Hill Hotel in Seoul from June 1 to 7, 1997, with the theme "Major Issues in Science and Technology in the 21st Century." Presentations, by invitation, will cover various disciplines as well as country reports and prognoses from Asian and other nations. Their aim will be to help scientists, their institutions and their governments to plan forward looking policies assisting in wise, positive, and sustainable development in the next century. Some solicitation of presentations as well as limited general attendance is envisaged. Further details will be given in these columns and by circular. For information and/or for being placed on mailing list, please contact: **Dr. John E. Bardach, Senior Fellow Emeritus, East-West Center, 1601 East-West Road, Honolulu, HI 96848-1601. FAX: 808-944-7502. Email: bardachj@ewc.hawaii.edu.**

ANNOUNCEMENT

CALL FOR NOMINATIONS BUSSE RESEARCH AWARDS

Promoting international research in gerontology, two Busse Research Awards will be given at the XVth International Congress of Gerontology, Adelaide, Australia, August 1997. Two gerontologists (**JUNIOR or MID-CAREER**) who have made significant contributions to aging research will be selected. One award will recognize a scientist from the social/behavioral sciences; the other, from the biomedical sciences. Awards: \$2000 each, with up to \$2,500 provided for travel/living expenses. Awardees must present a lecture based on their research at the Congress.

Deadline for receipt of applications: October 30, 1996.

For information and application forms contact:

**Harvey Jay Cohen, M.D.,
Jury Chair,
Busse Research Awards,
Center for Aging,
Box 3003,
Duke University Medical Center,
Durham, NC 27710, USA.
Telephone: 919-660-7502
FAX: 919-684-8569
Email: ray00004@mc.duke.edu.**

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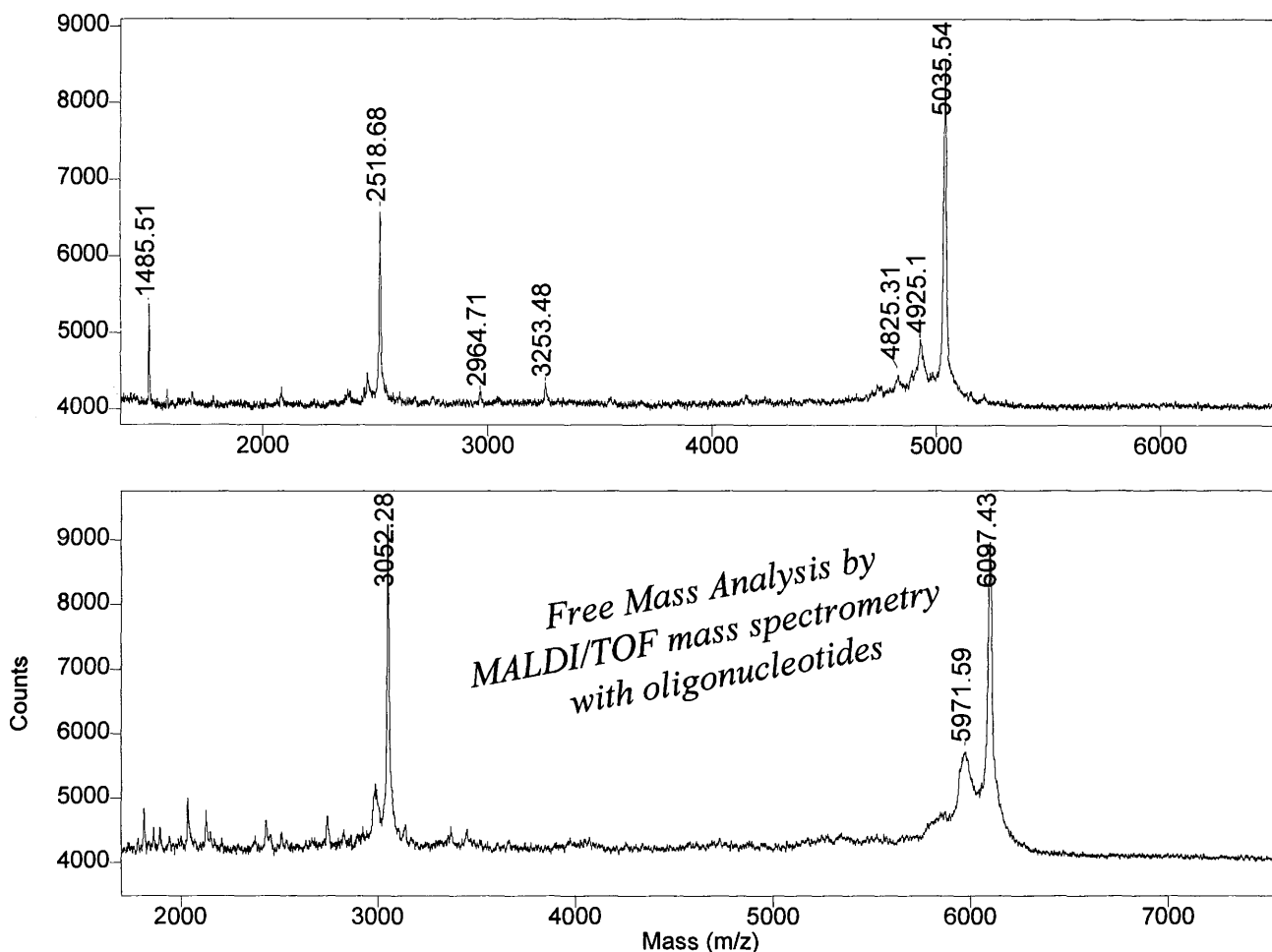
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