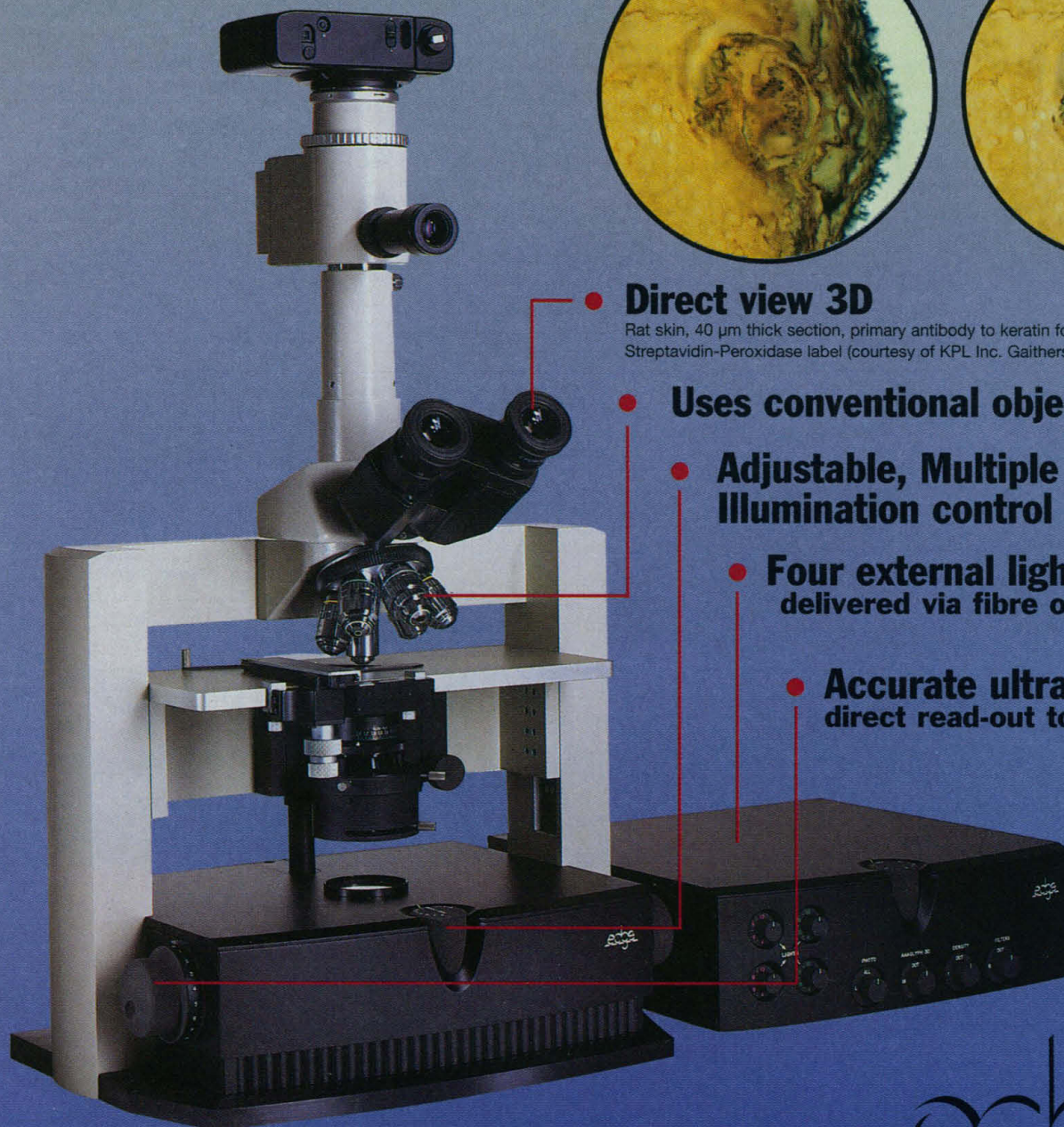


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PRODUCTS & MATERIALS

Chemical Database Management Software

Entropy is the only chemical database software that stores structures and text on database pages that do not require formatting. Users can import files from ChemWindow, ChemIntosh, and other chemistry drawing software to create an instant chemical database. Custom forms can be used for new records, as in traditional databases, but users are not bound by them. Users can search on text, structures, or substructures. The database is suited for storing lab notes, drawing collections, common forms, test results, presentations, and other chemical information. It can also be used to inventory chemicals or keep track of literature references. The software requires ChemWindow or ChemIntosh and shares much of the same user interface. **SoftShell International. Circle 140.**

Matrix Metalloproteinase Assays

Three new enzyme-linked immunosorbent assays (ELISAs) mark the launch of a new range of Biotrak cellular communication assays for the measurement of matrix metalloproteinases (MMPs) and their inhibitors. The ELISAs are specific for total MMP-1 (also known as interstitial collagenase), total TIMP-1 (the tissue inhibitor of metalloproteinases-1), and the activated MMP-1/TIMP-1 complex. **Amersham International. Circle 141.**

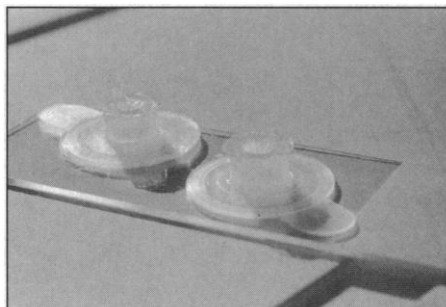
Mathematical and Statistical Software

A Windows version of MLAB is now available, the advanced mathematical and statistical modeling software featuring curve-fitting, differential equations, statistics, and graphics. It runs on both Windows 3.1 and Windows 95. The use of virtual memory under Windows allows much larger user arrays than the DOS version. MLAB has more than 450 built-in functions for solving simulation and modeling problems such as chemical kinetics, pharmacological compartmental mod-

els, and multiple site ligand binding. MLAB can solve systems of differential equations of any order, stiff or nonstiff. One of its major capabilities is constrained nonlinear optimization. **Civilized Software. Circle 142.**

Microscope Slide Reaction Chamber

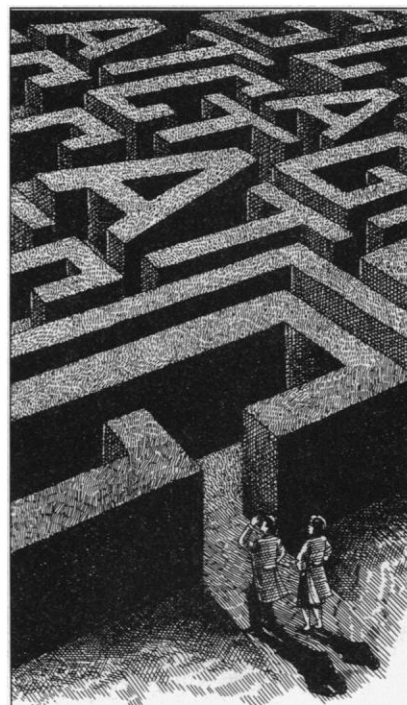
Gene Cone is a reaction chamber to prevent evaporation of amplification reagents thermocycling on a microscope slide. The user simply peels and sticks the self-adhesive chamber over a cell specimen or tissue section. The chamber allows amplification of RNA or DNA targets on a microscope slide just as solution reactions are done in tubes. Most of the amplified material remains localized for detection within the cells. The Slide



Adaptor kit combines everything needed to thermocycle slide specimens: heating platen and spring-pressure platform, 24 Gene Cone chambers, and 30 temperature monitors. **Gene Tec. Circle 143.**

Drawing and Diagramming Software

Drag 'n Draw for Windows 95 provides a quick and easy way to create designs and diagrams without the steep learning curve associated with most drawing applications. This new 32-bit version upgrades a recently launched 16-bit version. The program includes more than 1500 pre-drawn objects in symbol libraries so users do not have to spend time creating objects. Users simply select



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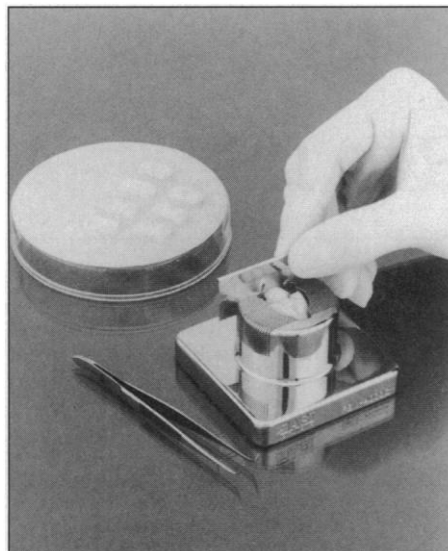
objects from libraries and drop them into a drawing. The version is packaged with both the Windows 3.1 version and the Windows 95 version in the same box. **DeltaPoint.** Circle 144.

Messenger RNA Detection and Quantitation Kit

NorthernMax is a kit containing all the reagents and solutions necessary for detection and quantitation of mRNA. The kit is optimized for use with Ambion's BrightStar chemiluminescent labeling and detection system, generating high signal-to-noise ratios and low background with sensitivities as good or better than radioisotopic analysis. Results can be available in minutes. The kit also can be used in isotopic format. **Ambion.** Circle 145.

Tissue and Rodent Brain Matrices

Tissue and Rodent Brain Matrices can aid the researcher in the freehand dissection of a wide variety of different tissues and rodent brains. They can help researchers repeatedly slice fresh tissue and brain in intervals as



small as 1 mm. The matrices are made from high-grade aluminum for rapid temperature equilibration, ease of cleaning, and sterilization. Applications include biochemical pharmacology, anatomy, and neurophysiology. Standard matrices available include gerbil, mouse, rat, guinea pig, ferret, rabbit, hamster, monkey, dog, cat, turkey, chicken, and canary. Heart matrices are also available. **Electron Microscopy Sciences.** Circle 146.

Literature

Chiral Applications Guide is a brochure that describes the capabilities of a capillary electrophoresis system for enantiomeric separations. **Beckman Instruments.** Circle 147.

Orbital Shakers describes a line that includes a new model designed to be used on a lab bench, in a reach-in incubator, or in an environmentally controlled room. Also highlighted are additional platforms and accessories. **Forma Scientific.** Circle 148.

The Ultimate Microwave Digestion Systems showcases a line of microwave instruments, accessories, and software. It covers the latest advances in high-pressure/closed vessel digestions, including improved instruments, vessels capable of pressures up to 1000 psi and temperatures to 260°C, and advanced fiber optic temperature sensing. **CEM Corp.** Circle 149.

Understanding Chemifluorescence is a full-color guide to a nonisotopic labeling and detection method for proteins and nucleic acids. The guide presents information on the principles of chemifluorescence chemistry, the advantages over other detection methods, and the range of applications. **Molecular Dynamics.** Circle 150.

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POSITIONS OPEN

STATE UNIVERSITY OF NEW YORK AT BUFFALO DEPARTMENT OF BIOCHEMISTRY

The Department of Biochemistry in the School of Medicine and Biomedical Sciences invites applications for a faculty opening at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level for a twelve-month, state-funded, tenure-track position. Preference will be given to established investigators with a nationally recognized research program supported by major extramural funding. We will also consider especially outstanding new investigators who have demonstrated exceptional research ability and promise for contributing to interdisciplinary training programs for graduate and professional students. Applicants should have a Ph.D. or M.D. degree. Applicants from all areas of biochemistry and molecular biology are encouraged to apply, but we are especially seeking candidates who have expertise in molecular mechanisms of regulation in eukaryotic systems. The Medical School enjoys interdisciplinary interactions with faculty throughout the University. A major structural biology program is underway and recently a new 120,000 square-foot research building has been opened. These developments present an uncommon opportunity for determined scientists to advance their research goals in an exciting environment. Send a complete curriculum vitae, a statement of research interests and future plans, reprints of recent publications and the names, addresses and FAX numbers of at least three referees to: **Chairman, Faculty Search Committee, Biochemistry Department, 140 Farber Hall, State University of New York, 3435 Main Street, Buffalo, NY 14214-3000.** Screening will begin immediately. To be assured of full consideration, applications should be received by February 1, 1996. *The State University of New York is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT/ASSOCIATE PROFESSOR PHARMACOLOGY

The Ohio State University College of Pharmacy, Division of Pharmacology, invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Candidates should have a Ph.D. in pharmacology, toxicology, or related field. Areas of high priority include biochemical, molecular, or cellular studies involved in the pharmacological or toxicological actions of drugs. Applicants at the Assistant Professor level should have significant postdoctoral research experience and demonstrated excellence in conducting research. This position offers excellent opportunities for an individual committed to quality research and teaching and willing to work in a collaborative environment within our health science community. Review of applications will begin January 1, 1996 with the position starting no later than September 1, 1996. A curriculum vitae, a description of research interests, and the names and addresses of at least three persons from whom letters of recommendation should be solicited should be sent to: **Dennis B. McKay, Ph.D., Chair of Search Committee, Division of Pharmacology, College of Pharmacy, The Ohio State University, Columbus, OH 43210.** *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.*

Tulane University is seeking to fill a vacant faculty position at the **TENURE-TRACK ASSISTANT PROFESSOR** level. It is possible that a candidate with exceptional qualifications may be considered for a position at a higher level. We are seeking a person with a Ph.D. at the time of appointment that can demonstrate high standards of both teaching and research, and who emphasizes applications of geology to environmental problems. Such a person may have a research field in any specialty, however, strong consideration will be given to those candidates that specialize in fields such as sedimentary geology, geohydrology, geomorphology, remote sensing, geochemistry, or geophysics, and can interact with researchers and students in a developing interdisciplinary environmental science program at Tulane. Applicants should send a letter of application, statement of research and teaching interests, current curriculum vitae, and the names, addresses, and telephone numbers of three references to: **Stephen A. Nelson, Department of Geology, Tulane University, New Orleans, LA 70118.** Email: snelson@mailhost.tcs.tulane.edu. The search will remain open until a qualified applicant is found. *Tulane University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

DEVELOPMENTAL/EVOLUTIONARY BIOLOGIST ASSISTANT PROFESSOR

The Biology Department of St. Lawrence University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin in the fall of 1996. We are seeking a developmental/evolutionary biologist with a demonstrated competence to teach laboratory courses in developmental biology and genetics. The ability to teach comparative vertebrate morphology, evolution, and other courses in one's area of expertise is also desired. The typical teaching load will be two lab courses per semester. A Ph.D. is required along with a commitment to teaching at the undergraduate liberal arts level. The successful candidate will be expected to develop a strong research program that would involve undergraduate students and to teach in the University's interdisciplinary program for first year students prior to tenure evaluation. Experience using computer-based multimedia in teaching would also be desirable. Candidates should submit a curriculum vitae, a statement of teaching philosophy and interest, a statement of current and future research interests, and have three letters of recommendation forwarded to: **Dr. T. Budd, Biology Department, St. Lawrence University, Romoda Drive, Canton, NY 13617.** Applications should be postmarked no later than January 26, 1996. *St. Lawrence University, a private, nonsectarian undergraduate university, is an Affirmative Action/Equal Employment Opportunity Employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.*

CELL CYCLE REGULATION Cornell University Medical College

The Department of Cell Biology and Anatomy invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Candidates whose analysis of cell cycle regulation involves a genetic approach, addresses networks of protein phosphorylation, or relates to development or oncogenesis are of particular interest. The successful candidate will join an interactive group of faculty with broad research interests in cell, developmental, and molecular biology. Candidates will be expected to establish a strong, well-funded research program and to contribute to graduate and medical education. Interested candidates should submit a curriculum vitae, names and addresses of three references, and a description of current and future research interests by January 31, 1996 to: **Paula Traktman, Ph.D., Department of Cell Biology and Anatomy, Cornell University Medical College, 1300 York Avenue, New York, NY 10021.** *Equal Employment Opportunity/Affirmative Action/Minorities/Female/Disabled/Veteran.*

Morehead State University invites applications for a tenure-track position as **ASSISTANT PROFESSOR** of Biology/Botanist beginning August 1996. Responsibilities: teach courses in plant anatomy, plant taxonomy, plant morphology, general botany, field botany, and general biology; enhance a greater than eleven-thousand herbarium; manage a greenhouse; take an active role in both biology (B.S. and M.S.) and environmental science (B.S.) programs. Job requires extensive knowledge of diverse Central/Southern Appalachian bryophytes. Qualifications: Ph.D. in biological science. Strong communication skills. Evidence of potential for successful teaching, research, and service. To ensure consideration, submit letter of application, curriculum vitae, statements of teaching philosophy and research interests, and three letters of reference by January 15, 1996, to: **Office of Human Resources, Attn: Botanist, Morehead State University, HM 101, Morehead, KY 40351.** *Morehead State University is an Affirmative Action/Equal Opportunity Employer.*

The Division of Virology, which is affiliated with the Division of Infectious Diseases at the University of Washington, is recruiting a full-time faculty member at the **ASSISTANT PROFESSOR** level. Applicants must have extensive laboratory-based research training in viral pathogenesis and immunology of medical interest. Preference will be given to those involved in sexually transmitted viruses or viruses of the immunocompromised host. Applicants should be ABIM certified in internal medicine and infectious diseases and will participate in the clinical activities of the division. Send curriculum vitae and three letters of reference to: **Lawrence Corey, M.D., Division of Virology, Department of Laboratory Medicine/Medicine, 1200 12th Avenue South, Room 9301, Seattle, WA 98144.** *The University of Washington is an Affirmative Action/Equal Opportunity Employer.* The closing date for applications is January 31, 1996.

POSITIONS OPEN

PLANT ECOLOGIST GRINNELL COLLEGE

Grinnell College invites applications for a tenure-track appointment beginning August 1996, in plant ecology at the **ASSISTANT PROFESSOR** rank. We seek candidates with proficiency in quantitative methods of the discipline and a commitment to field research with the ability to teach an advanced course in ecology using our field station and laboratory, an introductory biology course in evolution and ecology, and a general education course for non-majors. Grinnell College is seeking candidates with postdoctoral research experience who plan an active research program involving undergraduates. Start-up funds, excellent facilities, and continuing support for research are available. In their applications, candidates should address their interests in teaching in an undergraduate, liberal-arts environment that emphasizes close faculty-student interaction. Send curriculum vitae, three letters of recommendation, a statement of teaching and research interests, and copies of all transcripts to: **Professor Bruce Voyles** (voyles@ac.grin.edu), Ecology Search Committee, Department of Biology, Grinnell College, Grinnell, IA 50112-0806. Telephone: 515-269-3047. To ensure full consideration, applications must be complete by January 26, 1996. Grinnell College is an Equal Opportunity/Affirmative Action Employer and especially seeks women and minority candidates.

ASSISTANT PROFESSOR NEUROBIOLOGY DePaul University

DePaul University seeks an individual with a strong commitment to undergraduate education for this **TENURE-TRACK** position. In this newly created role you will teach graduate (M.S.)/advanced-undergraduate neurobiology, a specialty course, introductory biology, and possibly anatomy. We require a Ph.D. and active research with start-up funds available. Previous teaching experience desirable.

All applications must include a curriculum vitae with letter of interest, three letters of reference, a statement of educational philosophy, and a list of equipment/supply needs with cost estimates by item/category. Send or FAX to: **Dr. Sidney L. Beck, Chair, Department of Biological Sciences, DePaul University, 1036 West Belden Avenue, Chicago, IL 60614. FAX: 312-325-7596; Email: sbeck@condor.depaul.edu.** DePaul University, the employer of choice, is committed to diversity and equality in education and employment.

ASSISTANT PROFESSOR, Conservation Biology. Department of Biological Sciences, Florida Institute of Technology. Permanent nine-month position beginning August 1996. Ph.D. and postdoctoral research required. GIS experience preferred. Candidates must have research experience in applied conservation problems related to reserve design, protected species management, and marine conservation issues. Duties: developing a strong, funded research program; advising graduate students for the M.S. and Ph.D.; teaching undergraduate and graduate courses in ecology, conservation and evolutionary biology and others related to candidate's research interests. Send curriculum vitae, plans for research and teaching, selected reprints, and names of three references to: **Dr. G. N. Wells, Head, Department of Biological Sciences, Florida Institute of Technology, 150 West University Boulevard, Melbourne, FL 32901. Telephone: 407-768-8000, ext. 8034; Email: gwells@fit.edu.** Position pending funding. Affirmative Action/Equal Opportunity Employer.

ENVIRONMENTAL STUDIES BIOLOGY ELON COLLEGE

Applicants are invited for **ASSISTANT/ASSOCIATE PROFESSOR** of biology and **COORDINATOR** of environmental studies. Master's degree in biology and Ph.D. in environmental studies or related area required. A private, liberal arts college with 3500 students, Elon is located between Greensboro and Chapel Hill, North Carolina. Send letter of application, curriculum vitae, graduate transcripts, statement of teaching and research goals, and at least three letters of reference to: **Dr. Rosalind Reichard, Associate Dean of Academic Affairs, 2163 Campus Box, Elon College, NC 27244.** Applications should be received by January 19, 1996. Minority and women candidates are encouraged to apply. Elon is an Equal Employment Opportunity Institution.

POSITIONS OPEN

FACULTY POSITIONS IN MEMBRANE/CELL PHYSIOLOGY

The Department of Physiology of the Medical College of Pennsylvania and Hahnemann University invites applications for full-time, tenure-track faculty positions at the rank of **ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR or PROFESSOR.** Applicants must have a record of independent research in an area of membrane or cell physiology. Future areas targeted for expansion include epithelial and cardiovascular membrane structure/function. Appointees will join a Department that was initiated in 1992 and is built around the theme of membrane and cell physiology. Such a cohesive Departmental theme ensures excellent opportunities for interactions and collaboration. The Department occupies space in a recently renovated building located in a very pleasant residential area of Philadelphia. Salaries and start-up packages are competitive. In addition to establishing and maintaining a competitive research program, successful candidates will be expected to participate in teaching in a medical physiology course. Applications will be accepted until March 1, 1996. Send a curriculum vitae, a brief description of research interests and plans, and the names, addresses, and telephone numbers of at least three references to: **Dr. John M. Russell, Department of Physiology, Medical College of Pennsylvania and Hahnemann University, 2900 Queen Lane, Philadelphia, PA 19129. Email: russell@medcolpa.edu.**

BEHAVIORAL/COGNITIVE NEUROSCIENTIST

The Department of Brain and Cognitive Sciences in the University of Rochester seeks an **ASSISTANT PROFESSOR** for a tenure-track position. We are interested in persons working within the broad domain of brain and behavioral plasticity. Individuals whose research concerns neural mechanisms of learning and memory, or development/reorganization in perceptual or motor systems, are especially encouraged to apply. The successful candidate will be a key member of a group employing neurobiological, computational, and behavioral approaches to learning and developmental plasticity. Potential applicants can learn more about the Department and its programs from our web site: <http://www.bcs.rochester.edu/bcs/>. Applicants should submit a curriculum vitae, a brief statement of research interests, and the names of three referees to: **Search Committee Chair, Department of Brain and Cognitive Sciences, University of Rochester, Rochester, NY 14627.** Applications will be accepted until 1 February 1996, or until a suitable candidate is found. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR BIOLOGY Temple University

The Biology Department at Temple University is seeking from one to three **TENURE-TRACK** faculty members in physiology/ecology at the assistant professor level. Appointees would be expected to develop active research programs and to demonstrate excellence in graduate and undergraduate teaching. The department is broadly based, with 23 faculty members and an established graduate program leading to the M.A. and Ph.D. degrees. Candidates should submit curriculum vitae, research plans, descriptions of teaching experience and philosophy, and ask three referees to send letters of recommendation to: **Dr. Joel B. Sheffield, Chair, Department of Biology, Temple University, Philadelphia, PA 19122.** We will begin to review applications on February 1, 1996. For additional information Telephone: 215-204-8854, FAX: 215-204-6646, or review our web site: <http://blue.temple.edu/biology>. An Equal Opportunity/Affirmative Action Employer.

The Department of Psychology, Northwestern University, invites applications for a **TENURE-TRACK ASSISTANT PROFESSOR** position in the area of cognitive neuroscience (including computational modeling) to begin September 1996 or later. Qualifications include outstanding research and teaching ability. Interested candidates should send a statement of research interests, curriculum vitae, copies of recent publications, and at least three letters of recommendation to: **The Cognitive Neuroscience Search Committee, Department of Psychology, Northwestern University, Evanston, IL 60208-2710, USA.** Northwestern University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR BIOLOGICAL SCIENCE

Applications are invited for a tenure-track, **ASSISTANT PROFESSOR** position in the general area of environmental biology. The successful candidate will be expected to be committed to undergraduate education and to develop an active, extramurally funded research program that supports Master's and Doctoral level graduate students. Preference will be given to applicants with research expertise in the areas of toxicology, aquatic ecology, or developmental biology related to environmental concerns although other environmental-related research areas will be considered.

Michigan Technological University promotes the formation of interdisciplinary research programs and numerous opportunities for research collaborations are available in conjunction with faculty in the Environmental Engineering Center, the EPA Center for Clean Industrial and Treatment Technologies, and the Lake Superior Research group. Construction of a \$50 million Environmental Sciences and Engineering complex that houses the Department of Biological Sciences will begin shortly.

Review of applications will commence February 1, 1996 and will continue until the position is filled. Send applications, consisting of curriculum vitae, a brief statement of teaching philosophy and research goals, copies of recent publications, and a list of three references, to: **Search Committee, Department of Biological Sciences, Michigan Technological University, 1400 Townsend Drive, Houghton, MI 49931-1295.** Michigan Technological University is an Affirmative Action/Equal Opportunity Employer/Educational Institution.

FACULTY POSITION BIOLOGICAL CHEMISTRY

The Department of Chemistry at the University of North Carolina at Chapel Hill invites applications for a tenure-track position in biological chemistry. The successful applicant must have a Ph.D., postdoctoral experience, a strong record of research, and the ability to teach biological chemistry effectively at the undergraduate and graduate levels. Preference will be given to individuals who can establish a strong research program in biological chemistry and interact enthusiastically with other chemists, and whose appointment would be at the rank of **ASSISTANT PROFESSOR.** Review of the applications will begin December 15, 1995. Send a curriculum vitae, a brief research plan, a statement of teaching interests, and four letters of recommendation to: **Dr. Nancy L. Thompson, Department of Chemistry, CB 3290 University of North Carolina, Chapel Hill, NC 27599-3290.** The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION DEPARTMENT OF PATHOLOGY University of Arkansas for Medical Sciences

Applications or nominations are invited for a faculty position in the Department of Pathology, Division of Pediatric Pathology, at the level of **ASSISTANT PROFESSOR.** Applicants should have an established track record of excellence in original research in tumor cell biology as evidenced by their training and publications. Ph.D. level and postgraduate training and experience in molecular genetics is required. Candidates should submit their curriculum vitae to: **David M. Parham, M.D., Chief of Pediatric Pathology, Slot 820, Arkansas Children's Hospital, 800 Marshall Street, Little Rock, AR 72202.** An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR—RESEARCH BIOCHEMISTRY/BIOLOGY OF BONE

The Department of Orthopedic Surgery at the SUNY Health Science Center (HSC) at Syracuse has an immediate opening for a Senior Research Scientist. Primary responsibilities include developing a research program in the area of bone biochemistry or biology as it relates to orthopaedic implants. Ph.D. in biochemistry or biological sciences, experience with biology/biochemistry of bone, and previous animal experience is required. Send letter, curriculum vitae, and names and telephone numbers of three references to: **Kenneth A. Mann, Ph.D., Department of Orthopedic Surgery, 750 East Adams Street, Syracuse, NY 13210.** SUNY-HSC is an Affirmative Action/Equal Employment Opportunity/ADA Employer, committed to excellence through diversity.

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Overlapping images: Howard Sochurek, Genes/DNA, 1992 and Indian cave paintings, Southwestern U.S.



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Challenging the natural limits.

POSITIONS OPEN

EXPERIMENTAL PATHOLOGIST

The Department of Pathobiology at the University of Florida College of Veterinary Medicine has a tenure-track position for an experimental pathologist at the rank of **ASSOCIATE/ASSISTANT PROFESSOR**. Applicants should have D.V.M. and Ph.D. degrees or equivalents and a record of accomplishment in research. Responsibilities will include development of a competitive research program, teaching general pathology to veterinary students, and graduate instruction. ACVP board-certification is desirable, but not required. The Department has excellent research facilities within a dynamic Health Science Center complex and strong, extramurally funded research programs in molecular parasitology, viral and mycoplasma disease pathogenesis, vaccine development, and wildlife diseases. Applicants should submit a letter outlining professional goals, a curriculum vitae, and a list of three professional referees to: **Dr. William L. Castleman, Chairman, Department of Pathobiology, College of Veterinary Medicine, P.O. Box 110880, University of Florida, Gainesville, FL 32611-0880.** Department World Wide Web Page: <http://www.vetmed.ufl.edu/path/path.htm>. Review of applications will begin after January 1, 1996 and will continue until the position is filled. The position will start on or after July 1, 1996.

The University of Florida is an Equal Opportunity/Affirmative Action Institution.

ASSISTANT PROFESSOR/BIOCHEMIST

The University of Southern Indiana invites applications for a **TENURE-TRACK** position beginning fall 1996. Responsibilities will include teaching biochemistry, advanced biology courses appropriate to the candidate's expertise, and introductory-level courses in both chemistry and biology. Ph.D. required. Evidence of strong teaching and potential for scholarly research/grant writing required. The University is committed to excellence in teaching, scholarship and professional activity, and service to the University and the community. Biochemists with interest or experience in environmental areas are encouraged to apply. Application deadline is January 15, 1996, or until position is filled. Submit letter of application, curriculum vitae, and names and addresses of three professional references to: **Dr. Marie Hankins, Chair, Department of Chemistry, University of Southern Indiana, 8600 University Boulevard, Evansville, IN 47712.** *Affirmative Action/Equal Opportunity Employer.*

FOOD SAFETY/THERMAL PROCESSING

ASSISTANT PROFESSOR. The Department of Nutrition and Food Science, University of Maryland, invites applications for a nine and a half-month tenure-track research/teaching position. Applicants must have a Ph.D. in food science or related discipline; postdoctoral research or relevant industrial experience in microbial food safety and thermal processing is preferred. Responsibilities include 1) establishing an independent research program on heat preservation/processing including microbial survival and the application of molecular biological methods for pathogen detection in food; and 2) teaching undergraduate and graduate courses in thermal food processing and food safety. Send curriculum vitae, statement of research and teaching interests, academic transcripts, and addresses of three references to: **Dr. Donald V. Schlimme, Department of Nutrition and Food Science, Room 3304 Marie Mount Hall, The University of Maryland, College Park, MD 20742-7521.** Deadline for application is March 1, 1996 or until position is filled. *The University of Maryland is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

RESEARCH ASSISTANT PROFESSOR or POSTDOCTORAL position in the Department of Pediatrics, Duke University Medical Center. This is a position working in the laboratory of **Dr. Michael M. Frank, Chairman, Department of Pediatrics.** This well-funded laboratory explores the mechanism of action of the complement system proteins and the biochemistry of mediators of immune damage. Candidates should submit a cover letter, curriculum vitae and bibliography, and the names of three references to: **Dr. Frank, Box 3352, Duke University Medical Center, Durham, NC 27710.** *Duke University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

MAMMALIAN OR AVIAN PHYSIOLOGIST

Tenure-track, **ASSISTANT PROFESSOR** position anticipated for fall 1996, in Biological Sciences at the University of New Orleans (UNO); Ph.D. required and postdoctoral research experience in physiological adaptations of mammals or birds preferred. The Department is affiliated with the Audubon Institute's Center for Research of Endangered Species providing research opportunities involving threatened and endangered mammals and birds. Initially, duties include developing an upper-level animal physiology laboratory, and later, participating in upper-level physiology courses and Introductory Biology. Our twenty-four Graduate Faculty are expected to seek outside funding and engage in research, direct graduate student research, and teach courses. UNO (approximately 16,000 students) is in the LSU System on a campus overlooking Lake Pontchartrain. A statement of research interests, recent reprints, curriculum vitae, and three letters of recommendation should be sent by February 23, 1996 to: **Dr. Britt Bromberg, Search Committee, Biological Sciences, University of New Orleans, New Orleans, LA 70148.** Email: BBBS@UNO.EDU. *UNO is an Equal Opportunity/Affirmative Action Employer.*

ENVIRONMENTAL STUDIES/BIOLOGY

ASSISTANT PROFESSOR. Randolph-Macon College invites applications for an entry-level, nine-month tenure-track position in environmental studies/biology beginning in August 1996. Candidates should have a Ph.D. in environmental studies or a related field, with a specialty in wetlands study, aquatic biology, wildlife biology, or resource management. Candidates must be committed to undergraduate teaching in the liberal arts tradition, research involving undergraduate students, and development of the environmental studies program. Teaching responsibilities will include the introductory environmental studies sequence, and existing or new courses in environmental studies or biology, especially field biology. Candidates should submit curriculum vitae, a statement of teaching and research goals, and three letters of reference by January 17, 1996 to: **C. Barry Knisley, Chair, Environmental Search, Randolph-Macon College, Ashland, VA 23005.** *Randolph-Macon College is an Equal Opportunity/Affirmative Action Employer.*

AQUATIC BIOLOGIST

Lake Superior State University is seeking a tenure-track aquatic biologist **FACULTY MEMBER.** The academic program in biology is undergraduate. Teaching load will be 12 contract hours per semester (1 per lecture 2/3 per lab). Duties will include advisement, committee work, and supervision of senior thesis projects. Opportunity to develop a course in area of expertise and opportunity for research in conjunction with the Lake Superior State University Aquatic Research Lab.

Qualifications: A Ph.D. in aquatic biology, interest and excellence in undergraduate teaching and advising, and the ability to lead students in undergraduate research. Experience in aquatic ecotoxicology and federal or state agency experience is preferred.

Complete applications consist of a letter of application addressing the above qualifications, curriculum vitae, unofficial transcripts, and three letters of reference to: **Aquatic Biology, Office of Employee Relations, Lake Superior State University, Administration Building, Sault Ste. Marie, MI 49783.** FAX: 906-635-2111. For further information, contact **Karel Rogers, Telephone: 906-635-2266; Email: krogers@lakers.lsu.edu** or www.lsu.edu.

Application deadline: January 15, 1996. *An Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

FACULTY FOR EUROPE AND ASIA

The University of Maryland anticipates openings for **FACULTY** to teach undergraduate science courses on U.S. military bases overseas. Requirements include the Ph.D. or two Master's degrees, recent college teaching experience, U.S. citizenship, and competence to teach in two of the following fields: astronomy, biology, chemistry, computer studies, geology, mathematics, and physics. Renewable annual appointments begin August 1996. Frequent relocation and the cost of schooling make these positions difficult for those with children. Send résumé to: **Dr. Rosemary Hoffmann, University of Maryland University College, College Park, MD 20742-1642.** *Affirmative Action/Equal Employment Opportunity.*

POSITIONS OPEN

TWO FACULTY POSITIONS DEPARTMENT OF BIOLOGY TEXAS A&M UNIVERSITY

Applications are invited for two tenure-track positions at the **ASSISTANT PROFESSOR** level in the Department of Biology with a joint appointment in the Center for Advanced Invertebrate Molecular Sciences. We seek outstanding individuals who use cellular, molecular, and genetic approaches to address fundamental questions using model invertebrate systems. Preference will be given to candidates working in the areas of *Drosophila* development and invertebrate immunity or receptor biology. Successful candidates will be expected to establish a vigorous research program and to participate in undergraduate and graduate teaching. Interested individuals should send curriculum vitae and a statement of research and teaching interests, and should arrange to have three letters of reference sent to: **Invertebrate Molecular Biology Search Committee, Department of Biology, Texas A&M University, College Station, TX 77843-3258.** FAX: 409-845-2891. Deadline: January 22, 1996. *Texas A&M University is an Equal Opportunity/Affirmative Action Employer.*

MOLECULAR BIOLOGIST FORDHAM UNIVERSITY

Individuals are invited to apply for a tenure-track position at the **ASSOCIATE PROFESSOR** level. The department has an active research program and provides excellent physical facilities, state-of-the-art equipment, a stimulating research environment, start-up funds, and competitive salaries and benefits. Candidates should possess expertise in the area of cell/molecular biology and have an ongoing grant-supported research effort underway. The appointee will be expected to establish an active research program and participate in teaching at the graduate and undergraduate levels. Please submit a curriculum vitae and the names and addresses of three references by 15 January 1996 to: **Dr. Berish Y. Rubin, Chairman, Department of Biological Sciences, Fordham University, Bronx, NY 10458.** *Fordham University is an Affirmative Action/Equal Opportunity Employer.*

LOYOLA UNIVERSITY CHICAGO STRICTH SCHOOL OF MEDICINE FACULTY POSITION

Department of Microbiology and Immunology

The Department of Microbiology & Immunology (Chair: **Dr. Katherine L. Knight**) invites applications for a **TENURE-TRACK** appointment. The candidate is expected to develop an independent, extramurally funded research program using mammalian, yeast, or prokaryotic models to study molecular aspects of immunology, virology, or bacteriology. Excellent new facilities and attractive start-up funds are available. Applicants should send a curriculum vitae, a concise statement of their present and future research interests, and names and addresses of three references to: **Dr. Hans-Martin Jäck, Chair, Search Committee, Department of Microbiology and Immunology, Loyola University Chicago, 2160 South First Avenue, Maywood, IL 60153.**

Environmental Chemistry FACULTY POSITION, tenure-track, any rank, in the Chemistry Department, State University of New York-College of Environmental Science and Forestry (SUNY-CESF). A Ph.D. in chemistry or related discipline, with emphasis in environmental chemistry, is required. Strength in physical chemistry and postdoctoral experience are preferred. The successful candidate will be expected to develop a strong, extramurally funded research program and teach effectively at the undergraduate and graduate level. The department has 13 faculty members and offers B.S., M.S. and Ph.D. degrees with specializations in biochemistry, environmental, natural products and polymer chemistry. Information on the Department and its new building can be found at <http://www.esf.edu/>. The position is available starting August 15, 1996. To apply, submit a detailed curriculum vitae, research plans, and three letters of recommendation to: **John P. Hassett, Faculty of Chemistry, SUNY-CESF, 1 Forestry Drive, Syracuse, NY 13210-2778.** Deadline is January 15, 1996. *SUNY-CESF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

ANNOUNCING THE UNCF•MERCK POSTDOCTORAL SCIENCE RESEARCH FELLOWSHIPS

Ten \$55,000 awards will be made in 1996. Each award consists of

- FELLOWSHIP STIPEND UP TO \$40,000
- INSTITUTIONAL GRANT UP TO \$15,000

Applicants must be:

- African American
- Appointed as a postdoctoral fellow during the 1996 calendar year at an academic institution or a non-academic institution, such as the National Institutes of Health or the Centers for Disease Control
- Committed to conduct research at a Merck research facility for a minimum of three months
- A U.S. citizen or permanent resident.

For application packets, contact:

Rebecca Bennett, The College Fund/UNCF, 1-800-331-2244

Deadline for receipt is February 26, 1996

"A mind is a terrible thing to waste."

Executive Director

American Association for Accreditation of Laboratory Animal Care (AAALAC)

The Executive Director is the Chief Executive Officer of the American Association for Accreditation of Laboratory Animal Care in Rockville MD to start July 1996. Duties are in four areas: 1) operation of the AAALAC office; 2) fiscal and personnel management for the Association; 3) oversight of the accreditation program; 4) professional spokesperson for the organization. In all matters, the Executive Director accepts policies formulated by the Board of Trustees and the Executive Committee and implements programs consistent with those policies.

The following qualifications are required: An earned post-graduate degree; Familiarity with the function of NIH, USDA, and other federal agencies in animal care and use programs; Ability to communicate the position of AAALAC to professional and public constituencies. The following qualifications are desirable: Expertise in the management of non-profit organizations; Experience in the administration of animal care and use programs; Familiarity with the role of AAALAC as an accrediting agency, and with the issues of animal care and use in research, teaching, and testing.

Send Resume and at least 3 letters of recommendation to: **Hugh L. Evans, Ph.D., Chair, AAALAC Search Committee, Nelson Institute of Environmental Medicine, New York University Medical Center, Long Meadow Rd., Tuxedo, N.Y. 10987.**



MAYO CLINIC MAYO CANCER CENTER

Associate Director for Cancer Prevention and Control

The NCI-designated Mayo Cancer Center in Rochester, Minnesota, invites applications for Associate Director of Cancer Prevention and Control. Investigators with established research programs in cancer prevention and control and with demonstrated leadership skills are encouraged to apply. The Mayo Clinic provides an outstanding environment for conducting cancer prevention and control research, with particular strengths in epidemiology biostatistics and health services research. Interested candidates should submit a letter of application including a statement of research interests, curriculum vitae, bibliography, and list of references to:

James Ingle, M.D.
Associate Director for Clinical Research
Mayo Cancer Center
Mayo Clinic
200 First Street SW
Rochester, MN 55905

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

POSITIONS OPEN

SCIENCE EDUCATOR PHYSICAL SCIENTIST

The College of Science seeks an **ASSISTANT or ASSOCIATE PROFESSOR**, tenure track, to begin August 1996. A doctorate is required in atmospheric sciences, geology, or physics coupled with knowledge and experience in pre-college teaching and teacher preparation. Teaching will be at least 50% in the Science Education Program, including Secondary Science Methods and Student Teacher Supervision. Appointment and science teaching will be in the appropriate science department. Scholarship in physical science and/or teaching and learning, including research and publication and external funding, is expected. San Jose State University is a multicultural metropolitan California State University in the Silicon Valley, with a wide array of academic programs for its diverse population of about 26,000 students.

Curriculum vitae, statement of academic priorities, and three letters of reference must be received by February 16, 1996. Send to: **Dr. Jean Beard, College of Science, San Jose State University, San Jose, CA 95192-0099.** *San Jose State University is an Equal Opportunity/Affirmative Action Employer.*

COGNITIVE SCIENCE

The University of Alabama at Birmingham (UAB) invites applications and nominations for a position in Cognitive Science. Candidates must have a strong record of research accomplishment and are expected to maintain an active extramurally funded research program. The successful candidate is expected to take a leadership role in a new interdepartmental graduate program in Cognitive Science. The appointment will likely be at the **ASSOCIATE or FULL PROFESSOR** level but applications from excellent candidates at the Assistant Professor level are also welcome. Review of applications will begin immediately and continue until the position is filled. Applicants should submit a curriculum vitae, summary of research interests, representative reprints, and the names of three referees to: **Michael Sloane, Ph.D., Cognitive Science Search Committee, Department of Psychology, UAB, Birmingham, AL 35294-1170. FAX: 205-975-6110; Email: sloane@eyes.uab.edu.** *UAB is an Equal Opportunity/Affirmative Action Employer.*

MALACOLOGIST AMERICAN MUSEUM OF NATURAL HISTORY

The Department of Invertebrates invites applications for a **TENURE-TRACK** curatorial position in malacology to be available September 1, 1996. The prime requisite is a strong program in collections-based research in malacology including active fieldwork and appropriate laboratory and analytic approaches. The focus should be in one or more of the following areas: systematics, phylogenetic analysis, biogeography, analyses of life history or other ecological traits, or evolution. The new curator will also be responsible for managing the Department's large collection of molluscs in addition to participating in Museum committees, educational programs, and exhibition programs. The salary will be commensurate with qualifications and experience. The successful candidate must have the Ph.D. by time of appointment. Applications should include (1) a brief statement of research interest; (2) curriculum vitae; (3) complete bibliography; and (4) three letters of recommendation from persons familiar with the applicant's qualifications. Applications must be submitted by February 15, 1996 to: **Dr. Neil H. Landman, Chairman, Search Committee, Department of Invertebrates, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024.** *An Equal Opportunity Employer.*

CARNEGIE MELLON UNIVERSITY

Carnegie Mellon's Department of Engineering and Public Policy has **FACULTY OPENINGS** for people with Ph.D.'s in engineering or science to teach and do research on: the social dimensions of global change; manufacturing and industrial policy; arms control and security policy. Résumé with publication list and references to: **Granger Morgan, Head EPP, Carnegie Mellon, Pittsburgh, PA 15213.**

POSITIONS OPEN

ACADEMY OF NATURAL SCIENCES Director—Environmental Research Center

The Academy of Natural Sciences has an immediate opening for **DIRECTOR** of its Patrick Center for Environmental Research, in Philadelphia. The Center's staff of over 40 full-time professionals (including 10 Ph.D.s) perform research on the effects of natural processes and human activities on the structure and function of aquatic ecosystems, and apply this knowledge to the sound management of watersheds. The Director is responsible for all aspects of the Center's operation, including program, fiscal, and general management, and coordination with the Academy's other research centers. Requires Ph.D. in an appropriate environmental/ecological discipline, a strong understanding of and commitment to basic and applied ecological research, and demonstrated leadership experience in an academic research setting. The successful candidate will be articulate, highly organized, and capable of using excellent interpersonal skills to interact well with Patrick Center scientists, the Academy's administration, potential sponsors in governmental agencies and the private sector, and the public. The Director must develop and lead an aggressive marketing effort aimed at obtaining grants and contracts from governments and industries concerned with the environmental quality of aquatic ecosystems. Send curriculum vitae and three letters of reference by January 15, 1996 to: **Chair, PCER Director Search Committee, Academy of Natural Sciences, 1900 Benjamin Franklin Parkway, Philadelphia, PA 19103-1195.** Full benefit package. *Affirmative Action/Equal Opportunity Employer.*

The Denver Museum seeks applicants for **CHAIR and CURATOR** in the Department of Earth Sciences. The Chair will supervise a department of three curators, a collection manager, office manager, two preparators, and over 100 volunteers. Collection strengths are in fossil vertebrates and plants, and minerals from Western North America (about 30,000 specimens each). The successful candidate must be committed to museum exhibition, education, and research, and be able to manage and teach in a certification program in paleontology for amateurs with an emphasis on terrestrial ecosystems. Experience in managing large projects and budgets and a record of successful grant-funded research is required. Candidates must have a Ph.D. with demonstrated research excellence in area of collection strengths of the Museum and at least five years' experience as a curator. Applicants should submit a letter of application, curriculum vitae, three publications (scientific and popular), and arrange to have three letters of recommendation sent to: **Personnel Office, Denver Museum of Natural History, 2001 Colorado Boulevard, Denver, CO 80205.** Closing date is January 9, 1996. **FAX: 303-331-6492; Email: palco@dmnh.org.** *The Denver Museum is an Affirmative Action/Equal Employment Opportunity/ADA Employer.*

ASSISTANT PROFESSOR HUMAN ANATOMY

The Department of Anatomy, Northeastern Ohio Universities College of Medicine, is seeking a **TENURE-TRACK FACULTY MEMBER** to participate in teaching medical gross anatomy/embryology, and to contribute to the research program of the Department. Applicants should have an active research program in morphological aspects of mammalian evolution and experience in teaching dissection-based human gross anatomy. The Department is interested in expanding its strengths in functional morphology, paleontology, and/or biological anthropology.

The Northeastern Ohio Universities College of Medicine is part of a consortium that includes Kent State University, The University of Akron, and Youngstown State University. Also included in the research base of the consortium is the Cleveland Museum of Natural History. A doctoral program in biological anthropology is offered through the School of Biomedical Sciences at Kent State University. Applications consisting of a cover letter stating research interests, curriculum vitae, and three letters of recommendation should be sent to: **Dr. Steve Ward, Department of Anatomy, Northeastern Ohio Universities College of Medicine, P. O. Box 95, 4209 State Route 44, Rootstown, OH 44272.** The appointment begins July 1, 1996. The deadline for applications is February 15, 1996. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITIONS The University of Texas Southwestern Medical Center Hamon Center for Basic Research in Cancer

The Hamon Center for Basic Research in Cancer at The University of Texas Southwestern Medical Center invites applications for tenure-track faculty positions at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. We are seeking individuals who will interact effectively within a center with strengths in developmental biology, molecular biology, and genetics. Successful applicants should be capable of establishing a vigorous independent research program and should be prepared to participate in teaching in one of several vigorous graduate programs. Scientists working in the areas of signal transduction, gene regulation, and differentiation are particularly encouraged to apply.

Applicants should submit a curriculum vitae containing a brief summary of past research accomplishments, a statement of future research objectives, and three letters of reference to:

**Dr. Eric N. Olson, Director
Hamon Center for Basic Research in Cancer
University of Texas
Southwestern Medical Center at Dallas
5323 Harry Hines Boulevard
Dallas, TX 75235-9038**

An Equal Opportunity Employer.

DEVELOPMENTAL BIOLOGIST: The Department of Biology, Hofstra University, invites applications for an **ASSISTANT PROFESSOR** tenure-track position. Applicant must be capable of maintaining an active research program involving undergraduate and Master's degree students and developing a modern laboratory/lecture course in developmental biology. Teaching experience in embryology desired. Ph.D. required; postdoctoral experience preferred. Submit curriculum vitae, statements of teaching goals and research interests (including a short description of plan to involve students in research), three representative reprints, and three letters of reference to: **Developmental Biologist Search, Dr. Dorothy E. Pumo, Chair, Department of Biology, 114s Hofstra University, Hempstead, NY 11550.** Deadline: 31 January 1996. *Hofstra University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

RENSELAER POLYTECHNIC INSTITUTE, Department of Chemistry invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** in Analytical/Biochemistry to begin fall 1996. Particular consideration will be given to applicants with research interests in biological, biomaterials or environmental applications of analytical chemistry. Exceptional candidates may be considered for appointment at a higher rank. Applications should include a curriculum vitae with a brief description of proposed research projects and letters of recommendation from three professional references. Applications must be submitted by January 30, 1996 and sent to: **Professor Joseph T. Warden, Chair, Faculty Search Committee, Department of Chemistry, Rensselaer Polytechnic Institute, Troy, NY 12180-3590.** *Rensselaer Polytechnic Institute is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.*

GENETICIST/DEVELOPMENTAL BIOLOGIST

The Whittier College Biology Department seeks **ASSISTANT PROFESSOR** for tenure-track position, subject to funding (to begin fall term, 1996), to teach lectures and labs for upper-division courses in genetics and developmental biology. Duties will also include teaching introductory biology for majors and non-majors. Faculty are expected to establish a research program that involves undergraduates. Ph.D. required; postdoctoral experience preferred. Submit letter of application (including statements of teaching and research interests), curriculum vitae, and three letters of reference that evaluate teaching and research. Files will be reviewed beginning January 31, 1996, continuing until position is filled. Send all documents to: **Dr. Clifton Morris (Chair), Biology Department, Whittier College, P.O. Box 634, Whittier, CA 90608.** *Equal Opportunity/Affirmative Action Educator/Employer.*



NEW JERSEY MEDICAL SCHOOL

CHAIRPERSON

Department of Pharmacology and Physiology

The New Jersey Medical School of the University of Medicine and Dentistry of New Jersey invites nominations and applications for the position of Chairperson of the Departments of Pharmacology and Physiology. We intend to propose the merger of these two departments in the near future. The successful candidate will have the opportunity to mold and develop the educational and research programs of the new department created by this merger. The individual selected as chair must have a nationally recognized record of achievement in research and a strong interest in the development of two major teaching programs in the Medical School and the Graduate School.

For further information or to apply, please send your curriculum vitae to:

Ms. Linda C. Reich
NJMS - Office of the Dean
UMDNJ-New Jersey Medical School
University Heights
185 South Orange Ave., MSB - C662
Newark, NJ 07103-2714

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TOXICOLOGIST

Rohm and Haas Company, a leading chemical company serving global markets, has an immediate opening for a Toxicologist with expertise in *in vitro* methodology. This position is at our Corporate Research Center in Spring House, PA, near Philadelphia.

We are looking for a scientist to assume the leadership of a laboratory conducting assays in genetic toxicology, as well as research in toxicology using *in vitro* methods. The assays and research are primarily directed toward the expeditious development of new products for regulatory acceptance.

The successful candidate will have a Ph.D. degree in a relevant discipline, with demonstrated technical expertise in *in vitro* toxicology methods: e.g., genetic toxicology, cytotoxicity, receptor-mediated toxicity. This scientist will also have a substantive publication record in the peer-reviewed literature.

Our position requires a broad perspective of toxicology, as well as outstanding oral and written communication skills to interact effectively with regulatory scientists and our company's scientific staff. Candidates must be skilled in project management and have the drive, aptitude and motivation to work effectively in multidisciplinary teams.

Rohm and Haas offers a highly competitive salary and benefits program, including relocation assistance. We invest heavily in research and in resources to develop our Research staff. Candidates must be legally qualified to hold regular employment in the U.S. For consideration, please forward your resume or C.V., including publication list and references, to: **Corporate Staffing #295, Rohm and Haas Research Laboratory B-70, 727 Norristown Road, Spring House, PA 19477-0904.**



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IOWA STATE UNIVERSITY

OF SCIENCE AND TECHNOLOGY

USDA National Needs Graduate Fellowships

Here's your opportunity to be part of one of the nation's leading plant biotechnology programs. Iowa State is offering graduate fellowships in cell biology, biochemistry, molecular biology and physiology through the USDA National Needs Graduate Fellowship program. Fellowships are in Iowa State's Interdepartmental Plant Physiology Major (IPPM).

Fellowships are for three years with an annual stipend of \$17,000. Candidates with a master's degree or prior research experience are preferred.

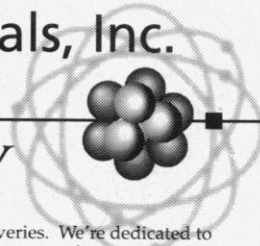
For more information and application details about these fellowships and others, contact: IPPM Graduate Admissions, 353 Bessey Hall, Iowa State University, Ames, Iowa 50011; email: ippm@iastate.edu OR <http://www.public.iastate.edu/~ippm>; phone 515-294-0132; fax 515-294-1337.

Iowa State University is an affirmative action/
equal opportunity employer.



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Cubist Pharmaceuticals is racing toward critical medical discoveries. We're dedicated to the development and commercialization of fundamentally new approaches to anti-infective drugs. Your insight and expertise can help us make this goal a reality.

Enzymology

Positions currently exist for scientists with expertise in enzymology. Successful candidates will have a Ph.D. in Biochemistry, previous industrial experience, and a proven track record in enzymology with relevant publications. Candidate must be able to function in the small biotech environment with emphasis on independence, creativity and excellent science. Responsibilities include development and execution of strategy to achieve scientific objectives, protein purification, assay development, kinetic and mechanism of action studies.

Protein Chemistry

Position currently exists for scientist with expertise in protein chemistry. Successful candidates will have a Ph.D. in Biochemistry or equivalent, a minimum of 2 years' experience in protein purification using HPLC and ligand-affinity techniques, and experience in supplying proteins for X-ray crystallography or NMR studies. Responsibilities include taking the lead in expressing and purifying enzymes and proteins that are targets for drug discovery programs; working with molecular biologists and biochemists in target selection and optimization of enzymatic assays; and playing a central role in developing and supporting structural biology programs involving X-ray crystallography, NMR and protein mapping.

We're setting an intense pace for research and discovery, balanced by exciting professional opportunities. Working with us, you'll enjoy a competitive compensation package. Please send your resume to: **Manager, Human Resources, Cubist Pharmaceuticals, Inc., 24 Emily Street, Cambridge, MA 02139.** We're an equal opportunity employer.

POSITIONS OPEN

PROFESSOR AND CHAIRPERSON DEPARTMENT OF BIOLOGY

Northeastern University seeks applications and nominations for a **CHAIRPERSON** for the Department of Biology. The department consists of 22 full-time faculty, 28 professional staff and postdoctoral fellows, 114 graduate students, and 300 undergraduate majors. Research areas with significant extramural grant support include biochemistry, cell and molecular biology, physiology, marine biology, and ecology. The department participates in interdisciplinary programs in biochemistry, neuroscience, and marine biology. Northeastern University, a Carnegie II Research Institution, benefits from its Boston location and the close proximity of our Marine Science Center.

The department seeks an innovative and dynamic individual to fill the position by September 1996. Candidates must have a Ph.D., an internationally recognized record of scholarly research, proven administrative and leadership skills, and must qualify for appointment as full professor with tenure. The chairperson will be expected to maintain a well-funded research program, to provide outstanding leadership in enhancing both research and educational programs at the undergraduate and graduate levels, and to have a demonstrated commitment to issues of diversity.

Applicants should submit their curriculum vitae, a letter describing their qualifications for the position, and three letters of recommendation to: **Carol M. Warner, Biology Search Committee Chair, Faculty Senate Office, 442 Ryder, Northeastern University, Boston, MA 02115.** Full consideration will be given to applications received by February 15, 1996. *Northeastern University is an Equal Opportunity/Affirmative Action/Title IX Employer.*

Aquatic Invertebrate Biologist, ASSISTANT PROFESSOR. The Department of Biology and Microbiology, University of Wisconsin-La Crosse invites applications for an academic year, tenure-track position at the Assistant Professor level to start August 26, 1996. Applicants should have a strong commitment to undergraduate education. The successful candidate must have a Ph.D. and will be expected to (1) teach a course in aquatic invertebrate biology, (2) develop a course in an area of specialization, (3) assist in lectures and laboratories in introductory biology and/or zoology, and (4) develop an externally funded research program and direct undergraduate and graduate (M.S.) research. Candidates must have background and/or experience in one or more of the following areas: ecotoxicology, molecular toxicology, transport and fate of contaminants, environmental impact and risk assessment, GIS, physiological ecology. Send curriculum vitae, statements of teaching philosophy and research interests, graduate and undergraduate transcripts, and three letters of recommendation to: **Dr. James E. Parry, Chairman, Department of Biology and Microbiology, University of Wisconsin-La Crosse, La Crosse, WI 54601.** Deadline for receipt of materials is February 15, 1996. *The University of Wisconsin-La Crosse is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

Geneticist, ASSISTANT PROFESSOR. The Department of Biology and Microbiology, University of Wisconsin-La Crosse invites applications for an academic-year tenure-track Assistant Professor, to begin August 26, 1996. Applicants should have a strong commitment to undergraduate education and must have a Ph.D. in genetics with an emphasis in plant molecular genetics. The successful candidate will be expected (1) to teach a general genetics course, (2) to develop a course in an area of specialty, (3) to participate in a plant biology course and (4) to develop an externally funded research program and to direct undergraduate and graduate (M.S.) research. Send curriculum vitae, statements of teaching philosophy and research interests, graduate and undergraduate transcripts and three letters of recommendation to: **Dr. James E. Parry, Chairman, Department of Biology and Microbiology, University of Wisconsin-La Crosse, La Crosse, WI 54601.** Deadline for receipt of materials is February 23, 1996. *The University of Wisconsin-La Crosse is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION available immediately to carry out structure/function analysis of a novel class of small Zn²⁺-binding transcriptional activators. Applicants should have a strong background in protein biochemistry, including experience with protein overexpression and purification. Send curriculum vitae, statement of research interests, and names of three references to: **Dr. Gail Christie, Department of Microbiology and Immunology, Virginia Commonwealth University, Box 980678, Richmond, VA 23298-0678.**

POSITIONS OPEN

NORTH CAROLINA CENTRAL UNIVERSITY DIRECTOR

Biomedical/Biotechnology Research Institute

The **DIRECTOR** of the Biomedical/Biotechnology Research Institute will provide leadership for a broadly based modern research and training program that includes a variety of subdisciplines, such as environmental health, toxicology, and carcinogenesis. Responsibilities include setting research priorities; recruiting and hiring a staff of investigators and guiding them to secure external research and training funding; and insuring collaborative interactions among other relevant North Carolina Central University (NCCU) programs, local universities, and federal and corporate research communities.

Candidates for the position must hold the Ph.D. or equivalent doctoral degree, preferably in the biomedical sciences, have expertise in one of the biomedical research disciplines, and be an experienced scientist, academician, and administrator. The applicant should have published in refereed journals, possess an extensive record of research funding, and be experienced in directing an established and successful research program.

This is a twelve-month appointment. Rank and salary depend upon qualifications and experience. Review of candidates will begin on February 19, 1996, and will continue until the position is filled.

Please send a letter of application, curriculum vitae, and names of references to: **The BBRI Search Committee, c/o Gloria A. Haynes, Personal Assistant to the Chancellor, North Carolina Central University, Post Office Box 19617, Durham, NC 27707.** *NCCU complies with the Immigration Reform and Control Act of 1986.*

ASSOCIATE PROFESSOR CANCER PHARMACOLOGY

The School of Pharmacy and the Norris Cancer Center, University of Southern California (USC), Los Angeles, are seeking experienced investigators with background in chemistry, biochemistry, or molecular biology for a **TENURED/TENURE-TRACK** position. Persons conducting research in the general area of cancer pharmacology, and specifically oriented toward novel therapies based on molecular mechanisms, will be given the highest consideration. Teaching at the graduate and professional levels in the School of Pharmacy is required. Candidates should send the names of three individuals who can provide letters of reference and should send a curriculum vitae and a brief summary of research accomplishments and future research goals to: **Michael B. Bolger, Ph.D., School of Pharmacy, University of Southern California, 1985 Zonal Avenue, PSC 700, Los Angeles, CA 90033.** Evaluation of applications will begin February 1, 1996 and continue until the position is filled. *USC is an Equal Opportunity/Affirmative Action Employer.*

Mycologist, ASSISTANT PROFESSOR. The Department of Biology and Microbiology, University of Wisconsin-La Crosse invites applications for an academic year, tenure-track position at the Assistant Professor level to start August 26, 1996. Applicants should have a strong commitment to undergraduate education. The successful candidate will be expected to teach general mycology and medical mycology, and to participate in introductory microbiology and/or biology courses. The successful candidate will be expected to develop an externally funded research program and direct undergraduate and graduate (M.S.) research. A Ph.D. required with an emphasis in mycology. Send curriculum vitae, statement of teaching philosophy and research interests, graduate and undergraduate transcripts, and three letters of recommendation to: **Dr. James E. Parry, Chair, Department of Biology and Microbiology, University of Wisconsin-La Crosse, La Crosse, WI 54601.** Deadline: materials to be received by February 15, 1996. *The University of Wisconsin-La Crosse is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION available to study the mechanisms and genetics of human retinal degenerations. Experience with genetic screening, cloning, expression and site-directed mutagenesis preferable. Funding is available for two years with the potential for evolving into an independent self-supporting investigator in an active research environment. Send curriculum vitae and names of three references to: **Ted Acott, Ph.D., CERES, Casey Eye Institute, Oregon Health Sciences University, 3375 SW Terwilliger, Portland, OR 97201.** Email: acott@ohsu.edu. *Equal Opportunity Institution.*

POSITIONS OPEN

FACULTY POSITION IN X-RAY CRYSTALLOGRAPHY

The Department of Biological Chemistry and Molecular Pharmacology at Harvard Medical School and the Dana-Farber Cancer Institute are seeking applications for a position at the **ASSISTANT PROFESSOR** level to be located at the Dana-Farber Cancer Institute. Applicants should have an interest in the application of x-ray crystallography to address significant problems in structural biology, biochemistry, pharmacology, and cancer. The successful candidate will join an outstanding interactive group of structural biologists in the Harvard Medical School community. Interested applicants should send an outline of future research plans, a curriculum vitae, bibliography, and the names of three to four references to: **Professor James M. Hogle, Search Committee, Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, 240 Longwood Avenue, Boston, MA 02115.** *Women and minorities are encouraged to apply. Harvard University and Dana-Farber Cancer Institute are Equal Opportunity Employers.*

POSTDOCTORAL APPOINTMENT available for study of the role of oxidative stress in Alzheimer's disease and aging. Experience with contemporary molecular biology and protein biochemistry methods is desired. Our research emphasizes recombinant protein processing and trafficking. The Department of Pathology at the University of Texas provides stimulating scientific atmosphere and is part of the Texas Medical Center, the world's largest medical and scientific conglomerate. This also provides unlimited possibilities for collaborative research. Candidates should send curriculum vitae, transcripts, statement of research interests, and three letters of reference to: **Miguel Pappolla, M.D., Department of Pathology and Laboratory Medicine, University of Texas at Houston, P. O. Box 20708, Houston, TX 77225.** Email: pappolla@casper.med.uth.tmc.edu. *The University of Texas is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

UNIVERSITY OF CINCINNATI POSTDOCTORAL POSITIONS

Department of Pathology and Laboratory Medicine

The Department of Pathology and Laboratory Medicine at the University of Cincinnati is recruiting for two **POSTDOCTORAL POSITIONS** for those scientists with a recent doctorate degree and a strong background in molecular biology techniques. The successful candidate's studies will involve the generation and use of transgenic and gene knockout mice in delineating the mechanisms for dietary regulation of lipid absorption genes and in the relationship between dietary lipid absorption and atherosclerosis.

Interested applicants should send a curriculum vitae and the names of three references. Applications will be accepted until the position is filled. Applications and inquiries should be directed to:

David Hui, Ph.D.

**Department of Pathology and Laboratory Medicine
University of Cincinnati College of Medicine
P.O. Box 670529
Cincinnati, OH 45267-0529**

Vertebrate Zoology, Biology Department, College of Staten Island, City University of New York (CUNY), anticipates a tenure-track appointment as **ASSISTANT PROFESSOR** for September 1996. Ph.D., college instruction, curriculum development, and record sufficient for appointment to CUNY graduate faculty required. Postdoctoral experience and grant activity preferred. Send curriculum vitae, research plans, and names and addresses of three references to: **Prof. J. LeBlanc, Search Committee Chair, Biology Department, College of Staten Island/CUNY, 2800 Victory Boulevard, Staten Island, NY 10314.** *Equal Employment Opportunity/Affirmative Action/ADA Employer.*

POSTDOCTORAL FELLOWSHIPS

Molecular and Cell Biology of Apolipoproteins

Positions are available to study the regulation and functions of apolipoproteins involved in lipid transport in both cell and transgenic mouse models. Candidates must have a Ph.D., M.D., or both. A strong background in cell and/or molecular biology is preferred. Positions available through an NIH training grant: *U.S. citizens or permanent residents only.* Contact: **Ms. Irene Franck, Division Administrator, Department of Medicine, P&S 9-510, Columbia University, 630 West 168th Street, New York, NY 10032.** *We take Affirmative Action toward Equal Opportunity.*

The DEPARTMENT OF BIOCHEMISTRY at the University of Alberta invites applications for a FACULTY POSITION preferably at the Assistant Professor level (Salary Range \$39,230-\$55,526). This position is an entry into the regular academic progression of the university. The candidate is expected to secure extramural funding to support a high quality research program in an area that complements existing strengths of the department. These include: control of protein and mRNA turnover, molecular biology of lipids and lipoproteins, molecular immunology and virology, protein structure and function, proteolysis mechanisms, recombination and repair, signal transduction and transcriptional control (see <http://www.biochem.ualberta.ca>). We offer an outstanding research environment and graduate training program in these areas. An attractive start-up package, including three years of initial salary support, will be provided. In accordance with Canadian Immigration regulations, priority will be given to Canadian citizens and permanent residents of Canada. Individuals with a Ph.D. or equivalent and appropriate postdoctoral experience should send a letter of application, curriculum vitae, brief description of research plans, and arrange to have three letters of reference sent to: **Dr. Vern Paetkau, Chair, Department of Biochemistry, University of Alberta, Edmonton, Alberta, Canada T6G 2H7.** The application deadline is January 31, 1996. The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities and members of visible minorities.

RESEARCH SCIENTIST CELLULAR/ MOLECULAR IMMUNOLOGIST

Millennium Pharmaceuticals Inc. has fantastic opportunities in their Biology Division for a team of enthusiastic and creative cellular and molecular biologists and immunologists. Join a group focused on the identification and characterization of the biological function of novel genes as therapeutic targets for the treatment of inflammatory respiratory diseases including asthma, chronic bronchitis and COPD. The following positions are currently available:

RESEARCH SCIENTIST

The successful candidate will have demonstrated outstanding ability with a biological focus in the areas of lymphocyte activation and effector function. A Ph.D. in Molecular Biology or a related field and strong skills in cellular and molecular immunology are required.

RESEARCH ASSOCIATES

Positions will include the functional characterization of novel proteins expressed in cells of the immune system. Candidates will have a variety of responsibilities including mammalian cell culture, molecular biology, protein purification and analysis, and cellular biology. An MS and 3-5 years of experience is required.

Millennium is a rapidly growing biopharmaceutical company researching the genetic basis of common diseases and developing therapeutics using this understanding. Enjoy the rewards of an innovative environment, the challenge of progressive science and the incentive of stock ownership and a generous compensation package. Publications in leading scientific journals actively encouraged. Please send or fax your C.V. to: **Dr. Douglas Levinson c/o Shani Stickney, Millennium Pharmaceuticals, Inc., 640 Memorial Drive, Cambridge, MA 02139; FAX (617) 225-0884. EOE.**



MILLENNIUM
PHARMACEUTICALS
Pathways To Discovery

TEXAS A&M UNIVERSITY

Postdoctoral Positions and Graduate Assistantships in Plant Virology and Plant Biotechnology

Available immediately in the following research programs of the respective principal investigators.

1. Molecular characterization of furoviruses
Drs. Charlie Rush and
Karen-Beth Scholthof
2. Satellite Viruses and Satellite RNAs
Drs. Karen-Beth Scholthof and
Marilyn Roossinck
3. Long Distance Movement of Tombusviruses
Dr. Herman B. Scholthof
4. Interactions Between Different Furoviruses
Dr. Charlie Rush
5. Engineered Resistance and Molecular
Farming in Transgenic Sugarcane and
Sorghum
Drs. T. Erik Mirkov and James Irvine

For category 1-3, send applications or requests for additional information to the **Department of Plant Pathology and Microbiology at Texas A&M University, College Station, TX 77843, Fax: 409-845-6483.** For category 4, send correspondence to the **Texas Agricultural Experiment Station (TAES), P.O. Drawer 10, Bushland, TX 79012, Fax: 806-354-5829,** and for category 5 to **TAES, 2415 E Hwy 83 Weslaco, TX 78596, Fax: 210-968-0641,** or e-mail: e-mirkov@tamu.edu.



MAYO CLINIC MAYO CANCER CENTER

Staff Scientist in Cancer Research

The NCI-designated Mayo Cancer Center in Rochester, Minnesota, invites applications for several staff scientist positions in cancer research. Investigators with established research programs in areas of cancer biology with clinical/translational applicability are especially encouraged to apply. Areas of particular emphasis in the Mayo Cancer Center include breast and gynecologic malignancies, neuro-oncology (adult and pediatric primary brain tumors), prostate and genito-urinary malignancies, gastrointestinal malignancies, soft tissue sarcomas (including pediatric solid tumors), and hematologic malignancies. The Mayo Clinic provides an outstanding environment for investigators interested in applying modern advances in the cellular and molecular basis of cancer to improved methods in the prevention, diagnosis and treatment of cancer. Interested applicants should submit a statement of research interests, curriculum vitae, bibliography and list of references to:

Nita J. Maihle, Ph.D.
Associate Director for Basic Research
Mayo Cancer Center
Mayo Clinic
200 First Street SW
Rochester, MN 55905

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

POSITIONS OPEN

POSTDOCTORAL POSITION EPITHELIAL STEM CELLS

Position available to study the biological properties of corneal and conjunctival epithelial stem cells. Candidates must have a Ph.D. and/or M.D. with a strong background in cell culture and molecular biology. Additional experience in conducting studies with laboratory animals (rodents, rabbits) is a strong asset. Send curriculum vitae, including description of research experience and letters of three references to: **Robert M. Lavker, Ph.D., Department of Dermatology, University of Pennsylvania Health System, 235 CRB, Philadelphia, PA 19104-6142.**

University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP

A **POSTDOCTORAL FELLOWSHIP** is available in protein chemistry. Incumbent will study the structural changes of proteins and starch-protein interactions during food processing. Salary is \$30,000.00 per year. Applicants with doctoral degree and a strong background in protein chemistry and/or starch-protein interaction should apply to: **Dr. Gour Choudhury, Associate Professor, Fishery Industrial Technology Center, University of Alaska, 900 Trident Way, Kodiak, AK 99615, USA. Telephone: 907-486-1535.**

POSTDOCTORAL FELLOWS wanted for electrophysiological and electrochemical studies of transmitter release using midbrain dopamine and PC12 cell lines. Individuals will collaborate with group providing transfected lines expressing mutant synaptic proteins. Applicants must have Ph.D. or M.D. with equivalent experience. Candidates should have electrophysiology experience. Strong interest in synaptic plasticity desirable. Send curriculum vitae and names of references to: **Dr. David Sulzer, Department of Neurology, Parkinson's Disease Research Center, Black Building 3-307, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH SCIENTIST CELL ANALYSIS

AmCell Corp. is looking for an innovative Ph.D. level scientist to develop and optimize assays for multi-parameter cell analysis. The position requires expertise in bioorganic chemistry and physical chemistry relating to the synthesis of fluorescent labels, their conjugation to biomolecules, and hands-on experience with immunofluorescence, FISH techniques, flow cytometry, and/or fluorescence microscopy. The candidate must have three years of related experience in a research environment and must have excellent written and oral communication skills. Interested candidates please send applications to: **AmCell Corp., Attention: Dieter Reckenwald, Ph.D., VP R&D, 1190 Bordeaux Drive, Sunnyvale, CA 94089. Telephone: 408-752-1200; FAX: 408-752-1212.**

POSTDOCTORAL POSITION

University of California and Veterans Administration Medical Center (VAMC), San Francisco, has a position available immediately for a qualified individual to join a group studying the regulation of breast cancer by growth factors and hormones including vitamin D. Applicants should have a Ph.D. in molecular and/or cellular biology. Please send curriculum vitae and names of three references to: **Daniel Bikle, M.D., Ph.D., Department of Medicine, VAMC (111N), 4150 Clement Street, San Francisco, CA 94121.**

POSTDOCTORAL RESEARCH ASSOCIATES Molecular Oncology

Positions available immediately in a laboratory developing new methods for diagnosis and therapy of breast and gynecological cancer. The candidate must be less than three years after obtaining a Ph.D. in biochemistry or molecular biology, and have documented experience with PCR, DNA, and RNA analysis and gene cloning. Candidates will be involved in cloning and characterization of the new female cancer virus and PCR analysis of human samples.

Please send or fax curriculum vitae and names of three references to: **Dr. Eva M. Rakowicz-Szulczynska, Associate Professor, Director, Molecular Oncology Laboratories, Department of Obstetrics and Gynecology, University of Nebraska Eppley Cancer Center, 600 South 42nd Street, Omaha, NE 68198-3255. FAX: 402-559-8112.**

POSITIONS OPEN

FELLOWSHIPS IN MATHEMATICS AND MOLECULAR BIOLOGY

The Program in Mathematics and Molecular Biology has **GRADUATE** and **POSTDOCTORAL FELLOWSHIP** support available. Current topics in the Program include geometry, topology, and sequence analysis of DNA, molecular dynamics, phylogenetic comparison, and RNA, and algorithms for molecular structure prediction. Other areas will be considered. Fellowships can be held at any university or college in the United States. Postmark deadline for applications: February 1, 1996. *Women and minorities are encouraged to apply.* Apply to: **PMMB, 103 Donner Lab, Number 3206, University of California at Berkeley, Berkeley, CA 94720-3206. Email: sylviaj@violet.berkeley.edu.**

POSTDOCTORAL POSITION

A **POSTDOCTORAL POSITION** is available to study structural/functional aspects of LDL receptor family members. Projects include investigating the role of LRP in catabolism of amyloid precursor protein (see *Cell*, 82:331-340, 1995), and the role of the VLDL receptor in regulating proteinase catabolism in vascular cells (see *J. Biol. Chem.*, 270:26550-26557, 1995). Submit curriculum vitae with the names and addresses of three references to: **Dr. Dudley K. Strickland, Holland Laboratory, Department of Biochemistry, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855. Equal Opportunity Employer.**

POSTDOCTORAL POSITION in molecular biology of nuclear hormone receptors, primarily studying mechanisms of gene regulation by thyroid hormone, retinoid and vitamin D receptors. Experience in molecular biology is required. Send curriculum vitae and letters of reference to: **Dr. Ron Koenig, University of Michigan Medical Center, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0678. FAX: 313-936-6684. Equal Opportunity/Affirmative Action Employer.**

Boston Heart Foundation, Harvard/MIT Division of Health Sciences and Technology offers a **POSTDOCTORAL POSITION**, focussing on the earliest steps in atherogenesis. Ph.D. degree with experience in molecular biology is essential; protein characterization experience is helpful. Send curriculum vitae and names of three references to: **Dr. Robert S. Lees, Boston Heart Foundation, 139 Main Street, Cambridge, MA 02142. FAX: 617-253-3653; Email: rst@MIT.edu.**

POSTDOCTORAL POSITION available immediately to study the roles of free radicals in neuronal injury and degenerative disorders. Ph.D. in neuroscience, biochemistry, or related area. Experience in microdialysis, HPLC, and apoptosis are helpful. Send curriculum vitae, three references, and reprints to: **Dr. Danxia Liu, Hall Magnet 1143, University of Texas Medical Branch, Galveston, TX 77555. FAX: 409-747-2182. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOW

For the identification of ataxia genes (**Pulst et al., Nature Genetics**, 1993) and the analysis of familial brain tumors (**Sainz et al., Hum. Mol. Genet.**, 1994), we are looking for two scientists with Ph.D. and established background in positional cloning and molecular genetics. Fax curriculum vitae with three references to: **Cedars-Sinai Medical Center, Job 1950372 at 310-967-0130 or Email: Pulst@CSMC.EDU.**

POSTDOCTORAL POSITION available to develop novel somatic cell genetics strategies for the study of signal transduction. Requires Ph.D. in medical genetics and previous experience in hematopoiesis, retrovirology, somatic cell genetics, fluorescence activated cell sorting, and molecular biology. Ability to perform human karyotype analysis essential. Send curriculum vitae by January 15, 1996 to: **Professor Brent Cochran, Department of Physiology, Tufts University, 136 Harrison Avenue, Boston, MA 02111.**

Doctoral Program in Molecular and Cellular Biology and Pathobiology

Interdisciplinary program in fundamental molecular and cellular biology and its application to disease. Competitive stipends of \$15,000 available. Contact: **Director, MCBP Program, College of Graduate Studies, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2501.**

POSITIONS OPEN

POSTDOCTORAL POSITION in Cellular and Molecular Neurobiology—The Department of Neurobiology has postdoctoral positions available to study various aspects of molecular, cellular, and developmental neurobiology. Some major areas of interest are cell-cell and cell-substratum adhesion molecules, neurite outgrowth, and nerve regeneration. Specific studies include: analysis of overexpression, mutation or deletion of adhesion molecules in animals; analysis of genes such as Hox and Pax that control the expression of adhesion molecules, and their subsequent roles in the formation of morphogenetic pathways during neural development; identification of signal transduction pathways and the gene programs activated by adhesion molecule binding. Applicants should have a strong background in cellular and/or molecular biology. Send curriculum vitae and three letters of reference to: **Dr. Gerald M. Edelman, Chairman, Department of Neurobiology, The Scripps Research Institute, 10666 North Torrey Pines Road, SBR14, La Jolla, CA 92037. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS

TWO positions are available immediately to study *Mycobacterium tuberculosis*. Candidates must have laboratory experience in molecular genetics, automated DNA sequence analysis, or IS6100 typing. Two positions are also available to study *Streptococcus pyogenes* pathogenesis. Candidates must have experience in molecular genetics, recombinant protein expression and purification systems, or a broad background in immunology. Send curriculum vitae, including the names and telephone numbers of three references, to: **James M. Musser, M.D., Ph.D., Section of Molecular Pathobiology, Department of Pathology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. FAX: 713-798-4595. Baylor College of Medicine is an Equal Opportunity/Affirmative Action and Equal Access Employer.**

POSTDOCTORAL POSITION—Tuberculosis drug development. A Ph.D. molecular biologist to clone, express, and “knock-out” genes required for cell wall biosynthesis in mycobacteria. Work would be part of extensive mycobacterial research done at Colorado State on drug development, physiology, genetics, and immunology of mycobacteria. Contact: **Dr. Michael McNeil, Department of Microbiology, Colorado State University, Fort Collins, CO 80523. Email: mmcneil@vines.colostate.edu; Telephone: 970-491-1784; FAX: 970-491-1815.**

POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION available immediately to study the pathobiology of progressive renal disease in animal models and in cell culture. Techniques include Northern and Western analysis, reverse transcription PCR, in situ hybridization, ELISA detection of cytokines, immunohistochemistry, cell and tissue culture. Send curriculum vitae to: **Jonathan R. Diamond, M.D., Division of Nephrology, The Milton S. Eshers Medical Center, P.O. Box 850, Hershey, PA 17033. The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL POSITIONS (two) and one **RESEARCH COORDINATOR** position available immediately to study receptors, G-proteins, and ion channels involved in sensory transduction in vertebrate taste cells (*Nature*, 376:80, 1995; *Nature*, 376:85, 1995; *Nature*, 357:563, 1992). Strong background in molecular biology, protein biochemistry, or transgenic technology required. Send curriculum vitae, names and addresses of three references, and a statement of research interests to: **Dr. R. F. Margolske, Box 1218, Department of Physiology and Biophysics, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS available to study either the cis- and trans-acting components of vaccinia virus DNA replication or the role of protein phosphorylation in regulating viral transcription, replication, and morphogenesis. Submit curriculum vitae and three letters of reference to: **Dr. Paula Traktman, Department of Cell Biology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Email: ptrakt@mail.med.cornell.edu. Equal Employment Opportunity/Affirmative Action/Minorities/Female/Disabled/Veteran.**

SENIOR SCIENTISTS

Avitech Diagnostics, Inc. is pioneering the development of automated, high throughput systems for genetic diagnosis. We are applying proprietary technology based on nucleic acid enzymology to scan unknown mutations in disease-related genes. Avitech collaborates extensively with leading academic laboratories in the fields of cancer and cardiovascular disease. Our scientists work in an interactive, team-oriented environment that rewards initiative.

TECHNOLOGY DEVELOPMENT

We are seeking a Ph.D. biochemist/molecular biologist to direct projects from the discovery phase through proof-of-principle, validating technology for further commercial development. The successful candidate will have a record of innovation in developing new methods, solving experimental problems, and leading collaborative projects. Interactions with external collaborators will require outstanding oral and written communication skills.

ASSAY DEVELOPMENT

This scientist will adapt gene scanning technology to diagnostic formats compatible with existing automated clinical instruments. We are seeking candidates with at least 3 years' experience in diagnostic development and project management, an in-depth knowledge of clinical instrumentation, and a Ph.D. in biochemistry, molecular biology, or immunology.

Avitech Diagnostics offers highly competitive salary, benefits, & stock options. For immediate consideration, send CV to: **Research Director, Avitech Diagnostics, Inc., 30 Spring Mill Dr., Malvern, PA 19355** *Avitech is an equal opportunity employer.*



The Scripps Research Institute

Ph.D. Programs in Chemistry and Macromolecular & Cellular Structure & Chemistry



The Scripps Research Institute will admit highly qualified students in the fall of 1996 to two Ph.D. programs: one integrating cell and molecular biology with structure and chemistry, and the other in chemistry.

Graduate studies at Scripps provide an exceptional training opportunity in a uniquely multidisciplinary environment with an emphasis on individualized training for each student.

Candidates must have a bachelor's degree and a strong background in biology and/or chemistry. Qualified applicants will be invited to visit the Institute. Financial support will be provided to all accepted students.

Since its establishment in 1961, the Institute has gained international recognition for its basic research in molecular biology, immunology, chemistry, neurosciences, cell biology, and plant biology.

Individuals interested in applying to either program should contact the Office of Graduate Studies for a brochure and application: **The Scripps Research Institute, Office of Graduate Studies, IMM 21, 10666 North Torrey Pines Road, La Jolla, CA 92037. Tel: (619) 554-8469. Fax: (619) 554-6602. Internet: <http://www.scripps.edu>.** The graduate programs are accredited by the Western Association of Schools and Colleges. TSRI is an equal opportunity institution.

UNIVERSITY OF
ROCHESTER

Department of
Anesthesiology

TAPS Program

Training Anesthesiologists as Physician Scientists

Combined Anesthesiology and Ph.D. Program

To prepare physician scientists for careers as independent investigators in an academic environment, the Department of Anesthesiology, University of Rochester Medical Center, offers a program to combine the anesthesiology residency or fellowship with research leading to a Ph.D. degree. The program allows qualified candidates to complete the requirements for a Ph.D. in a specific biomedical science while concurrently meeting the certification requirements of anesthesiology residency, or fellowship in anesthesiology specialties such as ambulatory anesthesia, pain management, cardiac, obstetrics, or critical care medicine.

Applicants must be U.S.A. permanent residents, have an M.D. (or D.O.) degree, or be enrolled in medical school, and meet the entrance requirements of both the Anesthesiology Residency program, and the graduate program of their choice. The Departments of Biophysics, Physiology, Pharmacology, and Neurobiology and Anatomy currently participate in the program; others will be added. The individualized curricula is designed by faculty mentors from the basic science and Anesthesiology departments to ensure a logical progression of both clinical and academic training.

Stipends and benefits are maintained throughout the period of training, commensurate with the participant's anesthesiology training post-graduate status. Candidates completing their residency during the program may also qualify as part-time staff anesthesiologists while finishing the requirements for the Ph.D. degree.

Further information and applications may be obtained from: Richard J. Rivers, M.D., Ph.D.; TAPS Program, Department of Anesthesiology; University of Rochester Medical Center; 601 Elmwood Avenue, Box 604; Rochester, NY 14642; Phone: 716-275-2143; FAX: 716-244-7271; E-mail: RRIVERS@ccmail.anes.rochester.edu

University of Rochester is an equal opportunity, affirmative action employer.

Nucleic Acids Chemist



Promega Corporation, a world leading biotechnology company, headquartered in one of America's most livable cities, Madison, WI, has an immediate opening for a senior research scientist to direct and manage the scientific efforts of a team dedicated to developing novel chemistries for the purification of nucleic acids.

Selected individual will identify and develop novel chemistries/technologies for the purification of DNA and RNA; manage strategic relationships for the purpose of expanding the nucleic acid purification business, and present research and technology development plans to senior management. Requirements include a Ph.D. in polymer chemistry, organic chemistry or inorganic chemistry and 5+ years of related industrial experience. Extensive knowledge of the binding interactions between macromolecules, including the physical forces and interactions involved in the binding of nucleic acids to sequence specific binding proteins and small molecular weight ligands such as antibiotics. Extensive experience in designing novel solid and solution phase extraction methods for macromolecules including DNA, RNA, lipids or proteins. Previous experience in the design of novel chemistries suitable for automated extraction/purification of macromolecules. Previous experience with current methods in molecular biology including nucleic acid purification, transfection, translations and probe labeling and hybridization techniques and automated robotics systems preferred.

Promega's mission is to become the most responsive supplier of biological reagents and systems in the worldwide biotechnology research products market. We strive to provide our employees with a rewarding work experience and to achieve unparalleled excellence, quality and prosperity in our business. Relocation assistance will be provided. To apply, send resume to: **Promega Corporation, Human Resources (11104S), P.O. Box 7879, Madison, WI 53707-7879.** For additional career information, call our Career Opportunities Line at (608) 277-2539. To learn more about our products and our company, visit our home page at <http://www.promega.com>. EOE



Promega



POSITIONS OPEN

OUTSTANDING OPPORTUNITIES FOR GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS Vascular Biology at the University of Virginia

The University of Virginia offers a multidisciplinary program in Vascular Biology emphasizing physiology, pharmacology, biophysics and cell biology of the vessel wall. Twenty-four investigators are participants in a training program with a long history of successful mentoring of both graduate students and postdoctoral fellows. Our particular strengths are in the areas of biophysics, cell signalling and microcirculation. Laboratory investigations are underway in cell-cell communication, cardiac, smooth muscle and endothelial cell electrophysiology, smooth muscle cell signal transduction and leukocyte-endothelial cell interactions. Details of the faculty interests, a description of the program, and application forms may be found on World Wide Web at <http://www.med.virginia.edu/inter-dis/cvrc/home.html>. Interested and competitive applicants may also apply directly to: **Dr. Brian R. Duling, Department of Molecular Physiology and Biological Physics, Box 449, Health Sciences Center, University of Virginia, Charlottesville, VA 22908.** These positions are restricted to permanent residents or citizens of the United States. The University of Virginia is an Equal Opportunity Employer.

POSTDOCTORAL POSITION Mayo Clinic Scottsdale Department of Biochemistry and Molecular Biology

POSTDOCTORAL POSITION focused on functional analysis of a carcinoma-associated transmembrane mucin MUC1. Project includes development and analysis of mammary gland tumors induced by chemicals and other means in Muc-1 null and wild type mice and analysis of phenotype of Muc-1 null mice using differential display or subtractive hybridization. Applicant should be experienced in molecular and tumor biology and immunology. Position available May 1996. Applicants should send curriculum vitae, three recommendation letters, and a one paragraph description of research interests to: **Dr. Sandra Gendler, Department of Biochemistry and Molecular Biology, Mayo Clinic Scottsdale, S. C. Johnson Medical Research Building, 13400 East Shea Boulevard, Scottsdale, AZ 85259.**

TWO POSTDOCTORAL POSITIONS HARVARD MEDICAL SCHOOL

1) Position available to study the molecular mechanisms involved in neuronal apoptosis and Alzheimer's disease. Experience in neuronal cell culture and biochemistry is required. 2) Position available to study the regulation and function of the new Alzheimer's disease genes. Experience in molecular and cell biology is required. Send curriculum vitae, a brief description of research experience, and names of three references to: **Dr. Bruce Yankner, Children's Hospital, Enders 260, 300 Longwood Avenue, Boston, MA 02115.** FAX: 617-738-1542. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available January 1, 1996 in digestive ecology/microbiology focusing on technologies for inhibition of methanogenesis and GI tract pathogen (*E. coli* O157:H7, *Salmonella*) colonization. The successful candidate will have microbial physiology background with anaerobic expertise in methanogens, pathogens, with good molecular biology and writing skills. Salary \$25,000, two years. Send curriculum vitae and names of references to: **Dr. F. M. Byers/Dr. S. C. Ricke, Institute of Food Science and Engineering, 120 Rosenthal, Texas A&M, College Station, TX 77843-2259.** Email: fmyers@acs.tamu.edu; FAX: 409-845-5292.

POSTDOCTORAL POSITION available immediately to study molecular mechanisms underlying malignant transformation. A strong background in molecular and cell biology is required. Experience with PCR, immunohistochemistry, and antibody production are desirable. Send résumé and the names of three references with telephone numbers to: **Mark Dayton, M.D., Ph.D., Department of Medicine, Section of Hematology/Oncology, LSU Medical Center—Shreveport, 1501 Kings Highway, Shreveport, LA 71130.** LSU Medical Center is an Equal Opportunity Educator and Employer.

POSITIONS OPEN

FOUR POSTDOCTORAL/PH.D. POSITIONS

A multi-university collaborative project examining the evolutionary ecology of exotic species introductions into the Great Lakes is looking for four candidates for postdoctoral or Ph.D. studies. Four research areas are currently under investigation: 1) Zooplankton diversity: allozyme and DNA markers will be used to diagnose unrecognized species invasions and to ascertain the source locations of currently recognized exotics. Contact: **P. D. N. Hebert; Email: phebert@uoguelph.ca**. 2) Theoretical ecology: mathematical theory of biological invasions. Contact: **P. Yodzis; Email: pyodzis@uoguelph.ca**. 3) Zooplankton feeding ecology: feeding rates and prey electivities, effects of *Bythotrephes* density on per capita feeding rates, and spatial distribution of this predator and its prey. Contact: **W. G. Sprules; Email: gsprules@cyclops.crin.utoronto.ca**. 4) Diffusion of exotic species: development of microsatellites for species of exotic molluscs and GIS modelling of diffusion from the source populations identified with these molecular markers. Contact: **E. G. Boulding; Email: boulding@uoguelph.ca**. Application packages should include a résumé, academic transcripts, the names, telephone numbers, and Email addresses of three academic referees, and an explanation of how your background relates to the position, and should be sent to: **Dr. Elizabeth Boulding, Department of Zoology, University of Guelph, Guelph, Ontario N1G 2W1 Canada.** Positions will remain open until they are filled. **D. K. Padilla** (U. Wisconsin, Madison) and **J. E. Havel** (Southwest Missouri State U.) are also collaborators on this project. The University of Guelph is committed to an employment equity program that includes special measures to achieve diversity among its faculty and staff. We therefore particularly encourage applications from qualified aboriginal Canadians, persons with disabilities, members of visible minorities, and women.

POSTDOCTORAL RESEARCH UNIVERSITY OF ILLINOIS AT CHICAGO COLLEGE OF MEDICINE Molecular Biology and Functions of Eosinophils

POSTDOCTORAL POSITIONS available in laboratory moving to the Department of Biochemistry starting March/April 1996 for two Ph.D.'s: (1) to characterize the regulatory regions of eosinophil genes, to clone and characterize transcription factors that regulate eosinophil-specific gene expression, and to study the role of these factors in eosinophil development and function. Genes under study include the alpha subunit of the IL-5 receptor, eosinophil-generated cytokines, granule cationic proteins, and CLC protein. Molecular biology experience in gene regulation/transcription factor research desirable. (2) To analyze structure-function relationships for granule proteins/enzymes of eosinophils, specifically studying their mechanisms of action in the pathogenesis of inflammation, tissue damage and airways dysfunction in asthma, allergic and other eosinophil-associated diseases. Experience in structural biology, and protein engineering, expression, and purification desirable. Send your curriculum vitae, three reference letters, and two reprints to: **Steven J. Ackerman, Ph.D., Department of Medicine, RE219, Beth Israel Hospital and Harvard Medical School, 330 Brookline Avenue, Boston, MA 02215.** The University of Illinois is an Affirmative Action Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study the mechanism of action of G-protein oncogenes of the RAS family in transformation and mitogenic signaling (**Chan et al., PNAS, 91:7558-7562**). Highly motivated individuals with strong training in biochemistry/molecular biology essential. Experience with cell culture techniques highly desirable. Send curriculum vitae and names of three references to: **Dr. Andrew M. L. Chan, The Derald H. Ruttenberg Cancer Center, The Mount Sinai Medical Center, 1230 York Avenue, Box 250, New York, NY 10021.** Email: chanc@rockvax.rockefeller.edu; Telephone: 212-327-7343; FAX: 212-327-7342.

POSTDOCTORAL POSITION available immediately to study molecular mechanisms underlying urological malignancies. A strong background in molecular and cell biology is required. Experience with immunohistochemistry and antibody production are a plus. Send résumé, names of three references (and their telephone numbers) to: **Oliver Sartor, M.D., Department of Urology, LSU Medical Center, 1501 King's Highway, Shreveport, LA 71130.** The University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN



POSTDOCTORAL RESEARCH ASSOCIATE position in lung toxicology/cell biology available immediately to study cellular and subcellular events involved in the inflammatory and permeability changes in the airways following exposure to air pollutants. The studies utilize innovative *in vivo* and *in vitro* approaches to examine biological effects. Participation in studies aimed at analyzing cytokines, cell adhesion molecules, cytoskeleton, inflammation, and epithelial injury is expected. Experience can be drawn from immunocytochemical, morphological, and biochemical procedures. Send curriculum vitae to: **Deepak K. Bhalla, Ph.D., Department of Occupational and Environmental Health Sciences, College of Pharmacy and Allied Health Professions, 628 Shapero Hall, Wayne State University, Detroit, MI 48202.**

Wayne State University (WSU) is an Affirmative Action/Equal Opportunity Employer. WSU—People Working Together to Provide Quality Service. All buildings, structures and vehicles at WSU are smoke-free.

POSTDOCTORAL RESEARCH ASSOCIATE

The Ecosystems Center at the Marine Biological Laboratory has an opening beginning January 1, 1996. The project will trace the importance of nutrients and organic matter from the watershed to the oligohaline foodweb of an estuary by experimentally adding ¹⁵N-enriched dissolved inorganic nitrogen and following uptake in biota. Should have a Ph.D., with a strong background in higher trophic levels, food webs, and modeling plus good writing skills and the ability to work well in collaborative research. Deadline is December 22, 1995 or until a suitable candidate is identified. Position is funded for two years. Please send résumé, names of three references, general statement of interest, and copies of papers to: **Human Resources, Marine Biological Laboratory, Woods Hole, MA 02543.** Telephone: 508-289-7422; Email: resume@mbi.edu. Equal Opportunity/Affirmative Action/Non-smoking workplace.

POSTDOCTORAL POSITION to investigate the mechanism by which G proteins and their components regulate the activity of phospholipases via protein kinases/phosphatases in cells transfected with wild type and mutated G protein coupled receptors and signaling elements. Applicants must have a Ph.D., M.D., or D.V.M. degree with experience in the area of molecular biology. Please send curriculum vitae and the names of three references to: **Dr. K. U. Malik, Department of Pharmacology, University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163.** Telephone: 901-448-6075; FAX: 901-448-7300. The University of Tennessee, Memphis is an Equal Employment Opportunity/Affirmative Action/Title VII/Title IX/Section 504/ADA Employer.

POSTDOCTORAL POSITION. Available immediately to participate in NIH-supported research project on insulin regulation of gene expression at Case Western Reserve University School of Medicine. Studies use a multidisciplinary approach including interaction of proteins, generation of transgenic mice, and measurement of intermediary metabolism. Experience in *in vivo* metabolism/biochemistry and molecular methods is preferred. Send or FAX curriculum vitae and three references to: **Dr. Jacob E. Friedman, Department of Nutrition, Case Western Reserve University School of Medicine, 10900 Euclid Avenue, Cleveland, OH 44106.** Telephone: 216-368-1616; FAX: 216-368-4544.

POSTDOCTORAL POSITION is immediately available to study the regulation of eukaryotic transcription by hypoxia. The work will focus on the human erythropoietin gene and its complex regulation by oxygen and orphan receptors. The applicant must have a Ph.D. and experience in molecular biology. Send a description of your research interests and achievements, a curriculum vitae, and the names and addresses of three references to: **Kerry L. Blanchard, Ph.D., M.D., Louisiana State University Medical Center, Center for Excellence in Cancer Research, Treatment and Education, 1501 Kings Highway, Shreveport, LA 71130-3932.** Email: kblanc@mailh.lsumc.edu. Louisiana State University Medical Center is an Equal Opportunity Educator and Employer.



Chairperson, Department of Cellular Biology and Anatomy

The Medical College of Wisconsin is reopening the search for a Chairperson for its Department of Cellular Biology and Anatomy.

The department is housed in a well-equipped modern facility. The faculty have productive research programs in developmental biology, visual sciences and neurosciences utilizing molecular, cellular, systems and imaging approaches. Departmental teaching responsibilities include the medical anatomy curriculum and the graduate program in cellular biology.

Candidates for chairperson should have a strong record of research achievements and scholarship, a commitment to graduate and medical education, and strong administrative skills to catalyze the continued growth of departmental programs. Candidates with research interests that include neurosciences, cancer, cardiovascular diseases are especially encouraged to apply although all outstanding candidates will be given serious consideration. The Medical College of Wisconsin has experienced a doubling in research funding during the last decade, and seeks to continue this trend through recruitment of excellent academic leadership and faculty.

Inquires should be directed to: Search Committee for Cellular Biology and Anatomy, c/o Office of The Dean, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226.

*Equal Opportunity/
Affirmative Action Employer M/F/H*



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

MOLECULAR NEUROSCIENCE

Department of Developmental Neurobiology

St. Jude Children's Research Hospital, a renowned center for biomedical research, has launched an initiative in the neurosciences housed in the recently completed Danny Thomas Research Tower. To this end, a new Department of Developmental Neurobiology, dedicated to the investigation of fundamental questions in contemporary neurobiology, has been created. The department is now recruiting postdoctoral fellows, graduate students and technical staff with research interests and training in molecular and cellular neurobiology. Currently, the department comprises Dr. Tom Curran (analysis of gene regulation; gene function during neurodevelopment), Dr. James Morgan (molecular basis of neuronal degeneration and regeneration; stimulus-transcription coupling in the nervous system), Dr. Suzanne Baker (molecular basis of carcinogenesis in Ewings sarcoma and pediatric brain tumors) and Dr. Michisuke Yuzaki (role of excitatory amino acid receptors in development and function of the nervous system; mechanisms of synaptic plasticity).

The campus provides a state-of-the-art research environment including new, custom designed laboratories and core facilities for molecular biology, peptide and protein chemistry, genomics and transgenic/knockout technology. The research towers presently house approximately 300 doctoral level scientists who provide a rich and interactive scientific environment. In addition, the Department is fostering strong intellectual and collaborative ties with neuroscientists and neurologists at the University of Tennessee Medical School. The faculty are affiliated with the Neuroscience Graduate Program in the Department of Anatomy and Neurobiology.

Postdoctoral candidates should send a CV and 3 letters of recommendation to the research lab of interest. Candidates for technical positions should write or call Kathleen Speck, human resources department (901-495-2770), for information and application forms. Potential graduate program. We expect to move into the new space in February, 1996; therefore, applicants should inquire before the end of January.

**St. Jude Children's Research Hospital is an
equal opportunity employment/affirmative action employer**

NIH-FUNDED POSTDOCTORAL FELLOWSHIPS IN GAMETE AND EMBRYO BIOLOGY AT THE UNIVERSITY OF WISCONSIN, MADISON

Faculty and research topics are: **Barry Bavister**-fertilization and early development; **Bill Bement**-signal transduction/cytoskeleton; **Gary Borisy**-cell motility and the cytoskeleton; **Neal First**-maternal/embryonic transitions; **Ted Golos**-trophoblast determination; **Jeff Hardin**-gastrulation and morphogenesis; **John Hearn**-implantation; **Gary Lyons**-gene expression in embryonic stem cells; **John Parrish**-capacitation and acrosome reaction; **Gerald Schatten**-imaging motility during fertilization. *Candidates must be U.S. citizens or permanent residents.* Send curriculum vitae, three letters of recommendation, reprints/preprints, and a 2-3 page research proposal to: **Dr. Gerald Schatten, Gamete and Embryo Training Program, University of Wisconsin, 1117 West Johnson Street, Madison, WI 53706. FAX: (608) 262-7319. EMAIL: schatten@mac.wisc.edu** An Affirmative Action/Equal Opportunity Employer.

Senior Scientists

-Virology and Cell Biology

Quality Biotech Inc. is a leading international biotechnology service company engaged in contract research and biosafety testing for the biopharmaceutical industry. As part of our expansion we have openings for two Senior Scientists. The positions require a Ph.D. in virology, Microbiology, Cell Biology or Molecular Biology and postdoctoral training. Supervisory experience is a plus.

For the position in our Virology and Cell Biology Section we seek an individual who has experience with assays for human, animal/or insect viruses. The individual will supervise a number of established assays to test or characterize biopharmaceuticals, and establish new testing procedures in the areas of gene therapy, tissue engineering, and for other novel biopharmaceutical approaches. The individual should have experience with a wide variety of viruses and/or cell cultures. Experience with standard biosafety assays such as sterility, endotoxin and general safety tests is a plus.

A second position is available in our Viral Validation Group. This group is responsible for the design and implementation of customized protocols for validation of virus removal and inactivation by biopharmaceutical and blood product manufacturing processes. The Senior Scientist in this position will be responsible for development of mammalian virus assays and production of virus stocks and will be involved with a wide variety of purification procedures including chromatography, filtration, and various virus inactivation methods. The individual should have experience in virology, cell culture, and standard protein purification methods.

We offer health benefits, 401(k) plan and tuition reimbursement. Send resume and salary requirements to: Quality Biotech Inc., Human Resources, 1667 Davis Street, Camden, 08104. Equal opportunity employer.



Quality Biotech®
Biotechnology Testing Services

POSITIONS OPEN

DIRECTOR OF CANCER GENETICS

The Department of Medicine, Columbia University, is searching for a **PROFESSOR/ASSOCIATE PROFESSOR**—level candidate for an endowed chair with substantial resources to develop a basic research and related clinical program in cancer genetics. Interested individuals should send their curriculum vitae and bibliography to: **Dr. Karen Antman, Chief, Division of Medical Oncology, MHB 6N-435, 177 Fort Washington Avenue, New York, NY 10032.** The University is particularly interested in qualified minority and women applicants. An Affirmative Action/Equal Opportunity Employer.

ORGANIC PHYSICAL CHEMIST Fluorescent Probe Synthesis

Position available for an individual with wide experience in synthetic organic chemistry of fluorescent probes. The research involves synthesis and testing of novel fluorescent probes for use in biochemistry, immunochemistry, and chemical/clinical sensing. Ph.D. required in organic chemistry, physical chemistry, or a closely related discipline. Experience with conjugatable probes, cation probes, and fluorescence spectroscopy necessary. Appointment at **RESEARCH ASSOCIATE** or **RESEARCH ASSISTANT PROFESSOR** level (non-tenure-track). Send curriculum vitae, three letters of recommendation, representative publications, and salary requirements to: **Probe Chemistry Search Committee, c/o Dr. J. R. Lakowicz, University of Maryland School of Medicine, Department of Biochemistry and Molecular Biology, 108 North Greene Street, Baltimore, MD 21201.** Application deadline: January 19, 1996. *Equal Opportunity Employer. Minorities and women are encouraged to apply.*

The USDA, Agricultural Research Service (ARS), Fargo, North Dakota, is seeking a **RESEARCH SCIENTIST** in animal physiology, chemistry, or biochemistry to conduct research on the metabolic fate of food or feed additives or environmental chemicals that may affect food safety. The research will seek to isolate and identify metabolites in mammalian tissues and excreta. The successful candidate is expected to develop a research program that will increase the understanding of physiological and biochemical mechanisms involved in the metabolism and disposition of food or feed additives or environmental chemicals that can be applied to the detection, prevention, and/or elimination of residues of these classes of compounds in animal products. Applicants must meet minimum education requirements as described in Vacancy Announcement ARS-D-6W-024. At least one year of research experience at the postdoctoral level in animal physiology (with a background in chemistry) would be required at the higher levels. Experience in mammalian surgery, metabolic studies (i.e., isolation and characterization of metabolites) and instrumentation (i.e., mass spectrometry, NMR, GLC, and HPLC) are advantageous. Salary (\$34,295 to \$49,989, plus 3.74% locality pay) is commensurate with experience. For information on application procedures call: **Ms. Melanie Nyquist, Administrative Officer, Telephone: 701-239-1203** for Vacancy Announcement Number ARS-D-6W-024 and for information on research project call: **Dr. Gerald L. Larsen, Research Leader, Telephone: 701-239-1231.** ARS is an Equal Employment Opportunity Employer. U.S. citizenship is required.

PLANT AND WETLAND ECOLOGIST

The Platte River Whooping Crane Trust, a non-profit organization that preserves habitat for migratory birds, is seeking a plant/wetland ecologist. Advanced degree; experience or education in wetland, riverine, or grassland ecology; strong communication skills; and commitment to conservation required. Expertise in wetland flora and restoration, hydrology, geomorphology, GIS, and applied natural resource management desirable. Responsibilities include land management, stewardship, and participation in water rights litigation. Send letter, résumé, salary history, and three references by December 30, 1995 to: **Dr. Paul Currier, Platte River Trust, 2550 Diers Avenue, Suite H, Grand Island, NE 68803.** Telephone: 308-384-4633; FAX: 308-384-4634.

POSITIONS OPEN

RESEARCH ASSOCIATE IN ECOLOGY Mountain Research Center Montana State University, Bozeman

One-year position, beginning February 1996 (possible renewal for two more years). Research on biodiversity in montane environments (herpetological expertise preferred but not required); contribute to and facilitate interdisciplinary research on integration of human activities with natural ecosystem processes; help implement a multi-user biosystematics lab; mentor student research. Ph.D. in ecology or related field and record of publication in ecosystem processes required. The successful candidate will be able to integrate ecological and biosystematic techniques, attract extramural funds, and communicate effectively with other ecologists, biosystematists, GIS technical staff, land managers, economists, and sociologists. Submit curriculum vitae, three letters of recommendation, reprints of relevant publications, and a letter explaining relevant research interests to: **Research Ecologist Search Committee, Mountain Research Center, 408 Traphagen Hall, Montana State University, Bozeman, MT 59717.** Screening of applications begins on January 2, 1996, and continues until a suitable candidate has been chosen. Access <http://www.montana.edu/~wwwnrc/> for a detailed job listing.

ADA/Equal Opportunity/Affirmative Action/Veterans Preference.

CELL BIOLOGIST/BIOCHEMIST—Assistant professorship, tenure-track, anticipated fall 1996 for a broadly trained biologist to teach cell biology, biochemistry and participate in introductory biology. Ph.D. required.

Applicants must demonstrate excellence in undergraduate teaching and a research program that will involve undergraduates, including publication. Experience in small college setting desirable. Ursinus, northwest of Philadelphia in a suburban setting, is a highly selective, residential, co-ed liberal arts college of 1200 students with a long tradition of strength in science.

Send letter of application and curriculum vitae to: **Dr. Ellen M. Dawley, Department of Biology, Ursinus College, Box 1000, Collegeville, PA 19426-1000** by January 15, 1996. *Ursinus is an Equal Opportunity/Affirmative Action Employer.*

EXPERIENCED ELECTRON MICROSCOPIST

To participate in a highly interactive and motivated lab of molecular biologists; analysis of gene knockout mice with emphasis on the cytoskeleton. Ph.D. degree in pathology or cell biology is desirable. Long-term position.

Submit résumé and list of three references to:

**Dr. Elaine Fuchs
Howard Hughes Medical Institute
The University of Chicago
5841 South Maryland Avenue MC 1028
Room N314
Chicago, IL 60637**

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

NMR FACILITY MANAGER

For six Varian spectrometers (200-500 MHz) and a 4.7T imager/spectrometer. Responsible for calibration, maintenance, and cryogen service. Must be familiar with SUN computers and UNIX. Additional duties include operator training network and accounting management, implementation of new pulse sequences, and design and construction of specialized items such as surface coils. Experience with molecular modeling desirable. Ability to interact collaboratively with a variety of investigators is important. Ph.D. or equivalent experience desired. Send résumé and three letters of reference to: **Dr. Stanford Smith, Chemistry Department, University of Kentucky, Lexington, KY 40506-0055.** *The University of Kentucky is an Equal Opportunity Employer.*

MOLECULAR VIROLOGIST. Ph.D. with primary training and experience in virology. The individual sought for our research on neuroimmunology program will investigate neuropathogenesis of viral infections, such as HIV and herpes viruses, using *in vivo* and *in vitro* brain cell culture models. Familiarity with *in situ* hybridization and PCR analysis required. Competitive salary and excellent benefits package. Forward curriculum vitae to: **Minneapolis Medical Research Foundation, 914 South Eighth Street, 600 HFA Building, Minneapolis, MN 55404.** Telephone: 612-347-5954. *Equal Opportunity Employer/Affirmative Action.*

POSITIONS OPEN

NUTRITIONAL BIOCHEMISTRY TECHNOLOGIST

Applicants should possess a Master's degree in nutrition with biochemical laboratory experience in a basic human research environment. In addition to hands-on experience with human nutritional biochemistry, the successful candidate should have a comprehensive background in sample processing protocols, methods development and validation, implementation of novel techniques, and instrument trouble-shooting and routine maintenance procedures. Data processing, data reduction, statistical analysis, and graphical presentation of analyzed data are components of the position. Excellent oral communication and technical writing skills are required. Previous experience with high performance liquid chromatography, enzyme linked immunosorbent assays, stable isotope measurements, radioimmunoassays, and/or spectrophotometry is highly desirable. Knowledge of requirements for standard laboratory safety and biohazardous materials handling is essential. The research conducted at the NASA Johnson Space Center includes definition of nutritional requirements for spaceflight, evaluation of protein, calcium, energy, and iron utilization as a function of spaceflight.

Interested applicants should submit current résumé, a list of references, and salary history **indicating position 95-F23-04** to: **KRUG Life Sciences Inc., Human Resources Department, P. O. Box 58827, Houston, TX 77258-8827.** *Employment Eligibility Verification Required. Equal Opportunity Employer. Minorities/Females/Disabled/Veterans. Smoke-free workplace.*

MICROBIOLOGIST

Hope College anticipates a three-year term appointment for a microbiologist beginning in August 1996. Appointment will be made at the **ASSISTANT PROFESSOR** level. The successful candidate will teach microbiology, another course appropriate to an undergraduate curriculum such as immunology, and be involved in the introductory course. In addition, the appointee will be expected to participate in one of the following ongoing research programs: cellular signaling-receptor cloning; molecular biology of lipid metabolism; induction of PR proteins in powdery mildew on barley; molecular biology of calcitrophic hormones; mechanisms of mutation in prokaryote and eukaryote cells; or molecular biology of parasite-associated cancers.

Hope College is a distinguished liberal arts college with an enrollment of 2,800 and a faculty of more than 180. Hope College maintains a strong tradition of "teaching through research" in the sciences. Hope College is affiliated with the Reformed Church in America.

Qualified applicants should arrange to have a curriculum vitae, transcripts, a statement of teaching philosophy and competencies, research interests, and three letters of recommendation forwarded to:

**Dr. Paul Van Faasen, Chair
Department of Biology
Hope College
35 East 12th Street
Holland, MI 49422-9000**

We will begin reviewing applications about January 10, 1996 and plan to make an appointment as soon as feasible thereafter.

Hope College complies with all legal requirements prohibiting discrimination in employment. Women and persons of color are strongly urged to apply.

PLANT TRANSFORMATION FACILITY MANAGER

The University of Nebraska is seeking an experienced individual to manage a new Plant Transformation Core Research Facility funded by the University's Center for Biotechnology. The position is a key component of an area of concentration aimed at generating novel useful transgenic plants. This person will oversee daily facility operations and collaborate with other project personnel. Target species are arabidopsis, tobacco, wheat, and soybean. Candidates should have a Ph.D. or M.S. with at least four years of experience in plant transformation. Closing date: January 15, 1996 or until suitable candidate is found. Résumé and three letters should be sent to: **Transformation Manager Search, N300 Beadle Center, P.O. Box 880665, Lincoln, NE 68588-0665.** Contact: **Dr. Paul Staswick, FAX: 402-472-7904; Email: pstaswick@ercvms.unl.edu.**

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

FRENCH "ACADÉMIE DES SCIENCES" PROFESSORSHIPS

In order to foster international cooperation between academic and industrial research groups, the French Académie des Sciences, the Centre National de la Recherche Scientifique and Elf Aquitaine will open a limited number of one-year professorships for the 1996-1997 period. The positions are to be held in France at an academic institution or at an Elf laboratory or both.

These openings are reserved for research professionals at all levels, from Associate to Full Professor, and may be held in conjunction with a sabbatical leave.

The positions include generous benefits such as housing arrangements and travel expenses, and depend upon the candidate's experience. Selection criteria include the quality of research achievements and the relevance of the proposed program to Elf research activities, which cover the following domains:

-Earth Sciences, with emphasis on surface seismology, sedimentology, organic and mineral geochemistry, and the physics of hydrocarbon fluids, including their interactions with rocks.

-Chemical Sciences, with emphasis on polymers, halogen and thio-chemistry, catalysis, photo-chemistry and process engineering research.

-Environmental Sciences, with emphasis on the evolution of the geosphere and biosphere due to human activities and the methodology of biological indicators.

-Life Sciences, with emphasis on the biochemistry of receptors as applied to the central nervous system, and cardiovascular, thrombotic and degenerative diseases.

Prearranged agreements with French academic laboratories are eligible for these professorships and will be appreciated although not mandatory. Preference will also be given to candidates whose research programs include significant interaction with Elf R&D staff.

There are no citizenship restrictions. Mastery of French is not required, although some familiarity with French culture is expected to be helpful for the selected candidates.

Formal applications should include a detailed résumé, a description of the research project and any information relevant to the selection of the most qualified candidates. They should be sent to the following addresses before February 29, 1996.

-For North America-based candidates:

J. BODELLE, Vice President Research & Development
Elf Aquitaine, Inc.
1899 L Street, N.W., Suite 500
Washington, D.C. 20036

For other candidates:

C. JABLON, Chief Scientist
Elf Aquitaine, DRTE
Tour Elf, Cedex 45
92078 Paris - La Défense, FRANCE

Some discussion with the candidates about the program may then be suggested by the selection committee before the final announcements, which are scheduled for May 1996.



POSTDOCTORAL FELLOWSHIPS Toxicology

Immediate openings for 2 NIH-sponsored postdoctoral fellowships (U.S. citizenship or permanent residency required for both positions):

1) To study the role of DNA conformation, chromatin structure, and nuclear architecture in targeting of oxidative DNA damage in cells. Prefer recent Ph.D. with experience in molecular biology, biochemistry, and antibody use/production. Send, FAX, or e-mail curriculum vitae, three letters of reference, and statement of skills/interests to: **Prof. Peter Dedon, Division of Toxicology, 16-336, MIT, Cambridge, MA 02139-4307; FAX: (617) 258-8676; e-mail: pcddedon@mit.edu.**

2) To study epithelial proliferation and apoptosis in inflammatory bowel disease. Experience with molecular biology methods and rodent models required. Familiarity with bacterial pathogenesis preferred. Send curriculum vitae, three letters of reference, and statement of skills/interests to: **Prof. David B. Schauer, Division of Toxicology, MIT, Room E18-564, Cambridge, MA 02139-4307.**

MIT is an Equal Opportunity/Affirmative Action Employer
MIT is a non-smoking environment

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

HARVARD MEDICAL SCHOOL Department of Microbiology and Molecular Genetics

POSTDOCTORAL RESEARCH FELLOW

Applications are invited from candidates to join two bacterial studies underway in the laboratory of Prof. E.C.C. Lin. (1) Physiological analysis and enzymatic characterization of the two-component signal transduction systems, Arc and Cpx, in *Escherichia coli*. (2) Elucidation of the anaerobic control of a regulon involved in glycerol fermentation in *Klebsiella pneumoniae* and monitoring evolutionary adaptations of the system in an *E. coli* host. Applicants should state their preference. The successful candidate should have a recent doctoral degree and significant experience in molecular genetics, bacterial physiology, and enzymology. The stipend will be commensurate with experience. Further enquires may be directed to Prof. Lin, Department of Microbiology and Molecular Genetics, Harvard Medical School, 200 Longwood Avenue, Boston, MA 02115. FAX: (617) 738 7664; E-mail: elin@warren.med.harvard.edu Applications should be accompanied by c.v. and three letters of recommendation. *Harvard University is an equal opportunities employer.*



ALBERT EINSTEIN COLLEGE OF MEDICINE
OF YESHIVA UNIVERSITY

FACULTY POSITIONS ALBERT EINSTEIN COLLEGE OF MEDICINE (AECOM)

DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Faculty positions are available on a tenure track for innovative investigators studying all aspects of immunology and the molecular pathogenesis of infectious organisms. Candidates can be at the beginning of their independent careers or more advanced in their academic pursuits. The Department has NIH Training Grants available to support pre- and postdoctoral students including MSTP students studying toward both the Ph.D. and M.D. degrees. AECOM provides core facilities including analytic ultrastructure analysis, production of transgenic and knockout mice, generation of hybridomas for monoclonal antibodies, FACS analysis, peptide synthesis and sequencing, and mass spectroscopy. There is a P3 facility available for handling infectious agents. Interested investigators should send their curriculum vitae, bibliography, a statement of research interests and 3 letters of recommendation to Ms. Georgia Varoutis, Department of Microbiology and Immunology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, New York 10461. *An Equal Opportunity Employer.*

ALBERT EINSTEIN
COLLEGE OF MEDICINE
Toward the
advancement of medicine
...and your career

DIRECTOR SHOALS MARINE LABORATORY CORNELL UNIVERSITY

The Section of Ecology and Systematics invites nominations and applications for the Bartels Director of the Shoals Marine Laboratory (SML). The SML, a shared venture with the University of New Hampshire (UNH), is primarily an undergraduate teaching program located on Appledore Island in the Gulf of Maine. Although based at Cornell, the Director will be responsible for implementing the SML's academic programs and overseeing operations, will serve as liaison with the UNH, and will be involved with fundraising. A candidate with a distinguished record of research and teaching in marine sciences is sought; the area of specialization could range from the organismal to ecosystem level, with an emphasis in any area of ecology, evolutionary biology or systematics. The successful candidate should have a strong commitment to undergraduate education, administrative experience, and carry on an active research program. We especially seek applications from established scientists who would be appointed as Associate or Full Professor with tenure, at Cornell.

Letters of nomination should include the nominee's name, current position, address, tel/fax number(s) and e-mail address. Applications should include a curriculum vitae, copies of representative publications, a statement of research, teaching, and administrative interests and names of three referees, and be sent to: **Dr. Drew Harvell, Chair, Shoals Search Committee, Section of Ecology and Systematics, Corson Hall, Cornell University, Ithaca, New York 14853-2701.** (Public FAX: (607) 255-8088; E-mail: CDH5@CORNELL.EDU; World Wide Web: HTTP://WWW.SML.CORNELL.EDU). Screening of completed applications will begin February 5 and continue until the position is filled. *Cornell University is an Affirmative Action/Equal Opportunity Employer.*

**CALIFORNIA STATE UNIVERSITY
SAN BERNARDINO**

**DEAN
SCHOOL OF NATURAL SCIENCES**

California State University, San Bernardino invites nominations and applications for the position of Dean of the School of Natural Sciences. The preferred starting time is August 1, 1996. Reporting to the Vice President of Academic Affairs, the Dean is responsible for the academic and administrative leadership of nine departments within the School.

The Dean will be responsible for representing the School to the University and its external constituencies. Candidates should have an earned doctorate in one of the disciplines in the School of Natural Sciences and be eligible for a faculty appointment at the rank of Professor with tenure in one of the departments.

Compensation is competitive. Review of applicants will begin January 31, 1996 and continue until the position is filled. The applicant should submit a resume accompanied by the names, telephone, fax numbers and e-mail addresses of three references to: **Office of the Vice President for Academic Affairs, Chair, School of Natural Sciences Dean Search Committee, California State University, San Bernardino, 5500 University Parkway, San Bernardino, CA 92407.** *California State University San Bernardino is an Affirmative Action/Equal Opportunity Employer, and has a strong institutional commitment to the principle of diversity in all areas. For More Information see the School of Natural Sciences Home Page: <http://www.csusb.edu>*

ENVIRONMENTAL SCIENCES



The University of Southern California announces the formation of the **USC WRIGLEY INSTITUTE FOR ENVIRONMENTAL STUDIES**, which will complement ongoing environmental programs at USC. The current initial phase of the development of this institute includes renovation of USC's existing laboratories and teaching facilities on Santa Catalina Island (about 25 miles off our local coast) and the creation of the following two **ENDOWED** positions, for which we invite applications:

THE WRIGLEY CHAIR IN ENVIRONMENTAL STUDIES. This is a tenured faculty position in the field of **ENVIRONMENTAL BIOLOGY**. We seek an active researcher with a distinguished record whose research efforts would include marine or terrestrial work at Catalina Island, although his or her primary office and laboratory can be on the USC campus. Ideally, this individual would have a broad, global perspective, although preference will be given to scholars who can also take advantage of the special opportunities afforded by the Channel Islands' environments. The successful candidate will be expected to participate in our undergraduate and graduate educational programs.

DIRECTOR OF THE USC WRIGLEY INSTITUTE FOR ENVIRONMENTAL STUDIES. This individual is expected to lead in the development and implementation of activities at the Catalina laboratories, including scientific research, university courses, conferences, public education, and outreach. We are looking for an entrepreneurial individual with experience administering a field research station or similar facility. Residence at Catalina is expected. Scientific and teaching skills (preferably a Ph.D.) and the demonstrated ability to work constructively with scientists and government agencies are required. This position may carry an academic appointment.

Applicants should send a résumé, a cover letter describing their interests relating to the position, and the names, addresses, telephone/FAX numbers, and e-mail addresses of at least 3 references to:

Chair, Wrigley Search Committee
Department of Biological Sciences
University of Southern California
Los Angeles, CA 90089-0371

Applications will be considered beginning 15 January 1996, and will be accepted until the positions are filled.

USC is an Equal Opportunity / Affirmative Action Employer. We particularly encourage women and minorities to apply.

RESEARCH & DEVELOPMENT POSITIONS

Diagnostic Products Corporation, a leading independent and well-established immunodiagnostic company, is expanding its R&D and is seeking a broad range of scientific talent to assume key roles in that expansion. Opportunities have created an immediate need for individuals in the following departments.

PROTEIN CHEMISTRY

Creative individual with a Ph.D. or M.S. in Chemistry or Biochemistry with experience in Peptide/Protein Chemistry instruments. Strong background and demonstrated skill to employ various analytical techniques, especially Mass Spectrometry, for peptides and proteins.

MOLECULAR BIOLOGY

Immediate openings exist for Ph.D. Scientists trained in Molecular Biology and Microbiology, with experience in development of diagnostic assays using immunoassay and DNA probe technology.

HYBRIDOMA

Ph.D. Scientists with experience in hybridoma technology, radioimmunoassay development and cellular immunology.

IMMUNOASSAY DEVELOPMENT

Ph.D. or M.S. in Chemistry, Biochemistry or related field with 2+ years of industrial experience in immunodiagnostic industry. Strong background in solid phase protein immobilization and assay development and thorough knowledge in theory of immunoassays are essentials.

We offer competitive salary, an attractive benefits package, and the opportunity to make a significant contribution to the immunodiagnostic field. Please send your resume and salary history to:

**Human Resources
Diagnostic Products Corporation
5700 W. 96th Street
Los Angeles, CA 90045**

IMMUNOLOGIST

Cytel Corporation is a publicly-held biotechnology company whose headquarters are located in San Diego, CA. We are committed to the discovery, design and development of immunotherapeutics for the treatment of serious human diseases. We are seeking a talented cellular immunologist to be a part of a team at Cytel's new facility in Charlottesville, Virginia. If you wish to contribute to carrying out original and applied research in the areas of antigen identification and peptide sequencing by mass spectrometry, please consider joining our Charlottesville research team.

The individual we are seeking will be a critical part of a team-oriented environment who will be responsible for culturing human CD8 T-cells, TIL and tumor cells, bioassay of T-cell activation, and MHC purification and peptide extraction. The selected individual must be familiar with peptides as well as basic molecular biology techniques, DNA transfections, and SDS-PAGE.

Candidates must have a Ph.D. in immunology or related scientific discipline plus a minimum of 3-5 years of post-doctoral experience as well as a proven record of scientific accomplishment and/or antigen identification. Individual must have the ability to work with other team members who have expertise in analytical biochemistry and mass spectrometry. Excellent verbal and written communication skills are essential as well as being self-motivated.

Cytel offers a challenging environment, competitive salary and benefit programs, as well as stock options and an employee stock purchase plan. Qualified candidates please send your curriculum vitae to attention of Job Code:CE44/190, Cytel Corporation, 3525 John Hopkins Court, San Diego, CA 92121-1121. We are an equal opportunity employer.

 **CYTEL**

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

The University of Maryland at Baltimore [UMAB] School of Pharmacy invites applications and nominations of outstanding leaders and scholars in the pharmaceutical sciences for the position of Chair, Department of Pharmaceutical Sciences. Located in Baltimore's University Center just blocks from the Inner Harbor, UMAB is the professional campus of the University of Maryland and consists of the Schools of Pharmacy, Medicine, Dentistry, Nursing, Law, and Social Work. The University of Maryland Medical System, Baltimore VA Medical Center, and Medical Biotechnology Institute combine with the professional schools to make UMAB the fourth fastest growing research center in the country, with over one billion dollars of new building in the past decade. The School of Pharmacy has enjoyed an increase in its state budget and laboratory space over the past three years. These developments have contributed to the efficient implementation of the School's innovative all-Pharm.D. professional degree program and significantly increased our emphasis on research and graduate education.

The Department of Pharmaceutical Sciences, consisting of the broad disciplines of biomedical chemistry, pharmaceuticals, and pharmacology, has in recent years grown dramatically. The Department now has 30 full-time faculty members, 10 of whom were hired into new positions within the past three years, and 75 graduate students. Extramural funding for research is currently in excess of four million dollars and ongoing investigations include collaborative projects with other researchers on campus and at the FDA, NIH, Johns Hopkins University, Walter Reed Army Institute of Research, and the pharmaceutical industry.

We are seeking a chair who has strong interpersonal and leadership skills, the ability to foster collaborative and interdisciplinary initiatives, and a commitment to continue the development of a diverse group of productive faculty into an outstanding department in both research and education. The successful candidate will be an excellent scientist with demonstrated management, teaching, and grantsmanship/fundraising skills.

An advanced degree in the pharmaceutical or related sciences and experience in pharmaceutical education are essential; a professional degree in pharmacy is desirable. Candidates are expected to have credentials sufficient to be appointed at the tenured full professor level. Salary is dependent upon qualifications and experience. Candidate screening will begin in January and continue until the position is filled.

Direct nominations or applications with a letter of interest, curriculum vitae, and names, addresses and telephone numbers of at least three references to:

**Dr. George E. Dukes, Chair
Pharmaceutical Sciences Department Chair Search Committee
School of Pharmacy
University of Maryland at Baltimore
100 Penn St., Suite 205
Baltimore, Maryland 21201
(410) 706-7338**

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

**DEAN, COLLEGE OF LIFE SCIENCES & AGRICULTURE
UNIVERSITY OF NEW HAMPSHIRE
DURHAM, NEW HAMPSHIRE**

The University of New Hampshire is seeking a Dean of the College of Life Sciences and Agriculture to assume duties on July 1, 1996.

The University is a Land Grant, Sea Grant, and Space Grant university of some 12,400 students committed to providing comprehensive high quality undergraduate and graduate programs and to the promotion of excellence in teaching, scholarship, and public service. It is the only comprehensive research university within the University System of New Hampshire.

The College of Life Sciences and Agriculture is one of the University's five schools and colleges, with 1,730 undergraduate majors, 460 associate degree students, and 129 M.S. and 84 Ph.D. students. Its Dean is responsible for the administration of the College's academic programs in biological sciences, natural resources, agriculture, and social sciences; its interdisciplinary biology and genetics programs; and affiliated research centers. As the College's chief administrator, this individual reports to the Provost and actively participates in university governance as a member of the Dean's Council and the Academic Senate.

The Dean oversees eight academic units: the Thompson School of Applied Science and the Departments of Animal and Nutritional Sciences, Biochemistry and Molecular Biology, Microbiology, Natural Resources, Plant Biology, Resource Economics and Development, and Zoology. The position also carries responsibilities as Director of the New Hampshire Agricultural Experiment Station. The college mission is supported by about 104 full-time faculty, most of whom have appointments split between teaching and the Agricultural Experiment Station or UNH Cooperative Extension. The Dean is involved in interactions with several on-campus research centers, including the Institute for the Study of Earth, Oceans, and Space; the Environmental Research Group; the Marine Program Board; and the Water Resources Research Center.

The successful candidate will have a demonstrated commitment to undergraduate and graduate education and research in biological sciences, natural resources, agriculture, and social sciences. He or she will have had successful administrative experience in higher education including personnel and program management and evaluation, curriculum and program development, budget development and management, and academic planning. The Dean is expected to have the ability to act as an advocate for the College's programs; consult with faculty, facilitate undergraduate and graduate education, research, outreach and development; guide and promote faculty development in teaching and scholarship; and advance the College's affirmative action goals. The candidate's qualifications must include an earned doctorate and a record of teaching and scholarship appropriate to an appointment as a tenured professor in one of the College's departments.

Applications should include a brief statement of philosophy regarding the position, a curriculum vitae and the names and addresses of three references (who will not be contacted until the later stages of the search), and should be addressed to **College of Life Sciences and Agriculture Dean Search Committee, Office of Academic Affairs, Thompson Hall, University of New Hampshire, Durham, NH 03824**. Applications will be reviewed starting **January 26, 1996**, but the search will remain open until the position is filled.

The University of New Hampshire is an AA/EEO Employer. Women and minority candidates are encouraged to apply.



RESEARCH SCIENTISTS

The Neurodegeneration Research Group at The Roberts Research Institute is comprised of a multi-disciplinary team of eight researchers whose interests are directed towards understanding the cellular and molecular mechanisms involved in development, death and regeneration within the nervous system. We are seeking to hire **two scientists** (Ph.D. and/or M.D.) whose work is focused on molecular mechanisms underlying neuronal death, cell signalling and transduction, or gene expression and transcriptional regulation. Priority will be given to investigators with highly molecular methods including genetic and transgenic approaches. The position and salary offered will be commensurate with experience. Establishment funds will be available for the first three years. Academic rank will be determined by cross appointments with the appropriate department at The University of Western Ontario. The John P. Roberts Research Institute, located on the attractive campus setting of The University of Western Ontario in London, Ontario, is an autonomous, modern facility that aptly reflects the strong growth and commitment to research in Southwestern Ontario. Qualified candidates should forward a curriculum vitae, an outline of research interests and scientific goals, reprints of key publications and a list of three references to: **DR. LYNNE C. WEAVER, DIRECTOR, NEURODEGENERATION RESEARCH GROUP, THE JOHN P. ROBERTS RESEARCH INSTITUTE, P.O. BOX 5015, 100 PERTH DRIVE, LONDON, ONTARIO, N6A 5K8 CANADA.** *In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.*

**CORE FACILITY
(MACROMOLECULAR
SEQUENCING & SYNTHESIS)
AT HUNTER COLLEGE
SEEKS MANAGER**

at the Research Associate level (Ph.D. in biomedical science or chemistry preferred, but other qualified applicants will be considered). Requires good knowledge of organic chemistry and liquid-phase protein sequencing. Experience with oligonucleotide synthesis, peptide synthesis, and HPLC preferred. Knowledge of DOS, Windows, Unix and Netware desired. The position requires close consultation with 35 faculty and students and supervision of one technician. Salary for this permanent position (\$50,000 to \$60,000) depends on qualifications. Attractive benefits. CV and references to: **Dr. T. Schmidt-Glenewinkel, Dept. of Bio. Sci., HUNTER COLLEGE, 695 Park Avenue, New York, NY 10021 EOE/AEE/AWDAE**



Faculty Position

Department of Brain & Cognitive Sciences

The MIT 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, skill acquisition, and attention. 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 **February 1, 1996** to: **Cognitive Search Committee, Dept. of Brain & Cognitive Sciences, E25-406, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139-4307.**

Qualified women and minority candidates are especially encouraged to apply.

MIT is an Affirmative Action/Equal Opportunity Employer.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PHARMACOKINETIC SCIENTISTS



Applications are invited for two Pharmacokinetic Scientist positions in the Department of Pharmacokinetics and Metabolism. Your primary responsibilities will include supporting preclinical and clinical development of recombinant proteins and small molecule therapeutics by designing, conducting, analyzing, and reporting pharmacokinetic/pharmacodynamic studies.

To qualify, you should be a scientist with doctoral level training in pharmacokinetics, pharmaceutical sciences or a related discipline and 2+ years of industrial or academic experience in pharmacokinetics. Excellent scientific, interpersonal and oral/written communication skills as well as the ability to work in a team environment are essential. Experience in the drug development process, regulatory submissions, and demonstrated capabilities in advanced pharmacokinetic data analysis are pluses.

Genentech is an international biotechnology company that discovers, manufactures and markets human pharmaceuticals for significant unmet medical needs. We offer an excellent salary and benefits package to full time employees that includes fully paid medical/dental/vision coverage, free health club membership, and Company stock purchase opportunities. For immediate consideration, please send your resume to Genentech, Inc., Human Resources Dept. NSDB, 460 Pt. San Bruno Blvd., South San Francisco, CA 94080. Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

Genentech, Inc.

Postdoctoral Fellowship Program

The Boston Biomedical Research Institute (BBRI) invites competitive applications for postdoctoral research positions in the laboratory of a BBRI faculty member under the BBRI Scholars Program. BBRI is an independent biomedical research center that offers an exceptionally collegial and intellectually stimulating environment. Current research programs at BBRI include:

Leonard Adam	Signal transduction mechanisms regulating vascular smooth muscle contractility
John Badwey	Biochemical basis of cell stimulation and transmembrane signalling
John Codington	Glycoproteins of cancer cells and their use in diagnosis and treatment of cancer
Peter Coleman	Protein prenylation enzymes and cell proliferation; mitochondrial bioenergetics
John Gergely	Mechanism of muscle contraction and its regulations
Zenon Grabarek	Biochemical and biophysical studies
Phillip Graceffa	Structure and function of calcium binding proteins
Jenshiang Hong	Control of smooth muscle contraction: Structure and function of tropomyosin and caldesmon
Noriaki Ikemoto	Mechanisms of gene activation in bacterial signal transduction
Saroj Joshi	Molecular mechanism of excitation-contraction coupling
Sherwin Lehrer	Energy coupling mechanisms in mitochondrial protein pumping ATPase
Enne Lu	Regulation of muscle contraction: Spectroscopic and chemical studies
Kathleen Morgan	Function-structure relation of contractile proteins
Henry Paulus	Subcellular mechanisms of contraction and growth of smooth muscle
Victor Raso	Complex biosynthetic pathways: Control of enzyme activity and gene expression
Nillma Sarkar	Immunological approaches to the design of new therapies for cancer and AIDS
Michael Sherman	Structure, function and biosynthesis of bacterial poly(A) RNA; chromosome replication
Walter Stafford	Molecular chaperones; control of the cell cycle
Terrence Tao	Study of protein and nucleic acid interactions by analytical ultracentrifugation
Vladimir Volloch	Structure and function of regulatory proteins in skeletal and smooth muscles
Albert Wang	Organization, structure, and expression of eukaryotic genes
Hartmut Wohlrab	Physical biochemistry of Ca-binding proteins and chair targets in smooth muscle cells
	Structure and function of integral membrane transport proteins; biochemistry of senescence

Applicants should submit a brief statement of research interests and curriculum vitae and arrange to have two letters of reference sent to: **Ms. Barbara Zillman, Administrative Assistant, Boston Biomedical Research Institute, 20 Staniford Street, Boston, MA 02114. Boston Biomedical Research Institute is an Equal Opportunity Employer.**

NEUROSCIENTISTS

The University of Calgary Neuroscience Research Group invites applications for two full-time academic neuroscientists at the assistant professor level or higher. These positions offer an excellent opportunity to develop an independent research program and collaborative interactions within a multidisciplinary research environment. Duties will include teaching and graduate student supervision. Positions are available in:

- molecular and/or cellular studies of the development or plasticity of the nervous system;
- cellular or systems neuroscience.

Qualifications include a PhD (or equivalent) and at least two years of postdoctoral experience.

The selected candidates must compete successfully for salary and establishment funding from the Alberta Heritage Foundation for Medical Research and/or Medical Research Council of Canada, and will have 75% of time protected for research. Interested persons are invited to visit our web site.

<http://www.cns.ucalgary.ca/nrg/nrg.html>

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

Please submit a curriculum vitae and a statement of research interests, and arrange to have three letters of reference sent directly, by January 31, 1996 to:

**Dr. S. Barnes, Chair
Neuroscience Research Group
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta T2N 4N1**



DIRECTOR Biotechnology Laboratory The University of British Columbia

The Biotechnology Laboratory at the University of British Columbia was established in 1987 to catalyze the interdisciplinary development of Biotechnology at B.C. The laboratory now comprises 13 independent faculty members with a strong record in attracting external funding. It includes an efficient administrative support system, excellent core facilities for molecular biology, a bioprocessing unit, and a teaching laboratory. The University is now searching for a distinguished scholar to serve as a new Director **commencing July 1, 1996**, or soon thereafter.

The candidate should be an internationally recognized scientist who will provide leadership, direction and vision to the Biotechnology Laboratory. The candidate will possess effective interpersonal and administrative skills and the ability to maintain strong, positive interactions with other academic units on campus and with the private biotechnology sector. The candidate should be willing to participate in fund-raising activities.

The new Director will lead the continued development of the Biotechnology Laboratory and will be provided with generous laboratory space, administrative support staff and facilities. The new Director will also hold an academic appointment in an appropriate Department.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. UBC welcomes all qualified applicants, especially women, aboriginal people, visible minorities and persons with disabilities. The position is subject to final budgetary approval.

Applications or nominations for the directorship must be received **prior to February 15, 1996** and should include the curriculum vitae of the candidate, together with the names of three references, and be sent to:



Search Committee
Biotechnology Laboratory Directorship
c/o Dr. Barry C. McBride
Dean of Science
6270 University Boulevard, Room 1505
Vancouver, B.C. CANADA V6T 1Z4

INFLAMMATION PHARMACOLOGY

Investigator / Sr. Investigator

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has an opportunity for an Investigator to join the Department of Inflammation Pharmacology.

The selected candidate will participate in the drug discovery process for immunologically driven inflammatory diseases and identify new molecular targets for immunological diseases. Acting as a departmental resource in the field of Cellular and Molecular Immunology, the Investigator will also be required to establish new model systems/assays to facilitate research efforts, present findings at scientific meetings and publish in scientific journals.

Qualifications include a PhD (or equivalent) in Immunology, Molecular Biology or Cell Biology, and 2+ years of post-doctoral experience in immunology, immunopharmacology or related field. Candidates must also demonstrate expertise with state-of-the-art cellular and molecular immunology methodologies, as well as knowledge of T and B lymphocyte biology and cell-mediated immunity. The ability to take a creative approach to independent projects is equally essential.

Located in our technologically advanced research facility in suburban Philadelphia, SmithKline Beecham offers an excellent compensation/benefits/relocation package. Interested candidates should send CV and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H-IPDG, P.O. Box 2645, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.



SmithKline Beecham
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Challenging the natural limits.

Postdoctoral Fellows Molecular & Cell Biology

The Lindsley F. Kimball Research Institute, a division of the New York Blood Center, invites applications for post-doctoral Fellow positions in the general area of molecular and cell biology of blood group antigens.

The fellows will participate in a collaborative, NIH-funded, SCOR program on Transfusion Biology and Medicine aimed at understanding the molecular basis of human blood groups in order to enhance the capabilities of blood banking services, characterize structure/function relationships and explore relations in disease processes. Candidates must offer a Ph.D. or MD degree supported by a strong background in biochemistry and molecular biology, including experience in gene isolation and expression and recombinant technology.

The program project leaders include:

CHENG-HAN HUANG, MD, PH.D.
Molecular genetics of the red cell Rh antigens

COLVIN M. REDMAN, PH.D.
The Kell blood group system and the McLeod phenotype

A. OSCAR POGO, MD
The Duffy blood group protein

MARION E. REID, PH.D.
Molecular biology in clinical immunohematology

These positions will be available January, 1996 and command a competitive salary and excellent comprehensive benefits package. The Lindsley F. Kimball Research Institute comprises 17 laboratories carrying out autonomous research programs in diverse field of biomedical research. Interested candidates should send C.V. and the names of (3) references to: Colvin M. Redman, Ph.D., The New York Blood Center, 310 East 67th Street, New York, NY 10021. An Equal Opportunity Employer M/F/D/V.

Lindsley F. Kimball
Research Institute
A Division of the New York Blood Center

IMMUNOLOGIST

The University of Calgary Immunology Research Group invites applications for a full-time academic position in immunology at the Assistant Professor level or higher. This position offers an excellent opportunity to develop an independent research program and collaboration with individuals studying leukocyte-endothelial cell interactions *in vivo*, and various aspects of lymphocyte and neutrophil development and function.

Qualifications include a PhD and/or MD, at least two years of postdoctoral experience, and demonstrated excellence and productivity in the area of leukocyte adhesion under normal and disease states. Applications are encouraged from those using molecular and biochemical techniques to study function and/or structure of adhesion molecules.

The selected candidate must compete successfully for salary support and establishment funding from the Alberta Heritage Foundation for Medical Research and/or the Medical Research Council of Canada, and will have 75% of time protected for research. More information available at website: (<http://www.im.ucalgary.ca/>)

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

Please submit a curriculum vitae, a statement of aims and research interests, and reprints of two recent publications, and the names/addresses of three referees by January 15, 1996, to:

Dr. J.D. Reynolds, Chair
Immunology Research Group
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta, Canada T2N 4N1



SYMPOSIUM

**The William Harvey
Medical Research Foundation**
a Not-For-Profit Organisation

presents an international symposium on

New targets in inflammation: inhibitors of COX-2 or adhesion molecules

Monday 15th -Tuesday 16th April 1996
to be held at
Sheraton New Orleans Hotel
New Orleans, USA

Conference Chairmen
Nicolas Bazan and Sir John Vane

Topics include

- Structure of cyclo-oxygenases [COX-1 and COX-2]
- Induction of COX-2 in inflammation
- Differential inhibition of COX-1 and COX-2 by NSAIDs
- COX-2 and COX-1 knockout and overexpression
- Development of selective COX-2 inhibitors
- COX-2 expression in different organs including uterus, brain and synovial tissue
- Toxicity of NSAIDs including renal side effects
- Leukointegrins and ICAM-ligands
- Cytokines and adhesion molecules in the inflammatory response

Faculty includes

NG Bazan [New Orleans] • P Cuatrecasas [Ann Arbor] • L Crofford [Ann Arbor] • D De Witt [East Lansing] • R DuBois [Nashville] • S Ferreira [Brazil] • G Fitzgerald [Philadelphia] • AW Ford-Hutchinson [Dorval] • WM Gallatin [Bothell] • H Jick [Lexington] • P Lipskey [Dallas] • P Loll [Philadelphia] • SG Morham [Chapel Hill] • J Oates [Nashville] • M Pairet [Biberach] • JR Vane [London] and PA Ward [Ann Arbor]

Poster presentations

Abstracts are invited

Hosted by

Louisiana State University
Neuroscience Center of Excellence, New Orleans, USA

For information

Apply to Dr. J MacLagan, Conference Secretariat, William Harvey Research Conferences, The Medical College, Charterhouse Square, London EC1M 6BQ, UK. Tel +44 171-982-6181; FAX +44 171-982-6094 or Mrs. Zevenaar Flowers-Davis, LSU Neuroscience Center, 2020 Gravier Street, Suite B, New Orleans, Louisiana 70112. Tel 504-568-6700, ext. 321; FAX 504-568-5801

CONFERENCE

8th International Congress MOLECULAR PLANT-MICROBE INTERACTIONS

July 14-19, 1996 • Knoxville, Tennessee USA

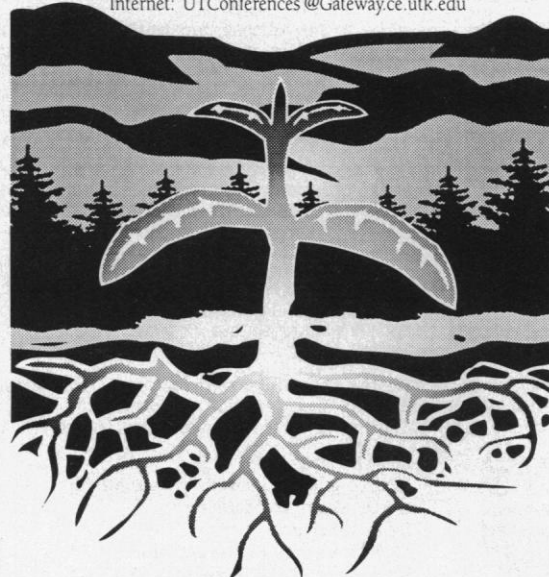
To receive a registration brochure:

UT Conferences, P.O. Box 2648, Knoxville, TN 37901 USA

Phone: (423) 974-0280 • Fax: (423) 974-0264

WWW: <http://www.ce.utk.edu/departments/conferences/confhome.html>

Internet: UTConferences@Gateway.ce.utk.edu



MEETINGS

American Physiological Society

Physiology InFocus

*Genetic Strategies for Understanding the
Physiological Basis of Disease*
Experimental Biology '96
April 14-17, 1996
Washington, DC

Monday, April 15 AM Genetic Tools for Physiological Studies

Organizer: Garry R. Cutting
Speakers: Francis Collins, Mark Boguski, Phil Hieter, Barry Ganetzky

Tuesday, April 16 PM Genetic Diseases Affecting Ion Channels

Organizer: Raymond A. Frizzell
Speakers: Eric Hoffman, Thomas Jentsch, Kurt Beam, David MacLennan, Richard Boucher

Monday, April 15 PM Transgenic Strategies for Physiological Studies

Organizer: Craig Malbon
Speakers: Susumu Tonegawa, Craig Malbon, Ronald Kahn, Alexandra Joyner

Wednesday, April 17 AM Ion Sensors and Transporters in Health and Disease

Organizer: Steven C. Hebert
Speakers: Edward Brown, Michael P. Kavanaugh, Jeffrey D. Rothstein, Matthias Hediger

For information, contact FASEB OSMC, Tel: 301-530-7010, Fax: 301-530-7014, E-Mail: eb@nsl.faseb.org

**ASSISTANT PROFESSOR
ENVIRONMENTAL TOXICOLOGY
Biochemical/Physiological Toxicology
University of California, Santa Cruz**

The Department of Biology at the University of California, Santa Cruz invites applications for a tenure track position at the level of Assistant Professor. The successful candidate will be expected to develop an extramurally funded research program in areas of biochemical and/or physiological toxicology focusing on fundamental molecular, biochemical or physiological mechanisms involved in the adaptations and responses of animals, plants, or microorganisms to environmental toxins. The candidate will be expected to teach both undergraduate and graduate courses in that area, and to actively participate in the development of a new graduate program in Environmental Toxicology. The successful candidate, who initially will be a member of the Department of Biology, will be the third of several appointments in a proposed Environmental Toxicology Program.

By January 31, 1996, applicants should submit a curriculum vitae, a brief description of research and teaching interests, copies of reprints, and arrange for three letters of recommendation to be sent to:

**Biology/Toxicology Search Committee
Department of Biology
225 Sinsheimer Laboratories
University of California
Santa Cruz, CA 95064**

Please refer to Provision #479 in your reply.

The University of California, Santa Cruz is an Equal Opportunity/Affirmative Action Employer.



Faculty Positions in Cancer Biology/Molecular Oncology

The newly formed Cancer Biology Program of Beth Israel Hospital is seeking applications for the position of Assistant Professor of Medicine. The successful candidate will hold the Ph.D. and/or M.D. degrees, and will have completed a minimum of two years of postdoctoral training in molecular or cellular biology, or genetics. Appointees will be expected to establish an independently funded research program in cancer biology. Applications are particularly encouraged from individuals with research interests and experience in the areas of (1) molecular genetic approaches (including knockout technology) to signal transduction with applications to oncology; (2) epithelial cell biology; or (3) novel targets for cancer therapy including apoptosis, cell cycle, repair/recombination, immunotherapy, telomerases. Generous start-up funds and some ongoing support will be provided. Members of the Cancer Biology Program currently focus on tyrosine phosphatases, steroid-thyroid hormone receptors, genetic instability in cancer and hematopoiesis. Candidates should send CVs and names of three references to:

**Benjamin G. Neel, M.D., Ph.D.
Faculty Search Committee
Molecular Medicine Unit
Beth Israel Hospital, RW663
330 Brookline Avenue
Boston, MA 02215**

The Beth Israel Hospital is an Equal Opportunity employer.

**MOLECULAR
REPRODUCTIVE BIOLOGY/
DEVELOPMENTAL BIOLOGY**

The Department of Physiology at the University of Maryland School of Medicine invites applications for a full-time, tenure-track position at the Assistant Professor level in the area of Molecular Reproductive/Developmental Biology. We are specifically seeking candidates who use innovative cellular, molecular, genetic, and/or transgenic approaches to study the regulation of cell migration, proliferation, differentiation, and related developmental processes in tissues of the reproductive system. Of particular interest are the signalling pathways through which hormones, growth factors, and other mediators control these complex events. Applicants must have a Ph.D. or M.D., at least two years of postdoctoral experience, and the potential to develop a strong, independent research program. Teaching responsibilities include participation in medical and graduate courses. The Department of Physiology ranks near the top of physiology programs in the U.S. in NIH-funded research and citations per faculty member. The Department and School of Medicine, provide a stimulating environment for research, with several interdisciplinary research and training programs - including Reproductive Biology, Molecular and Cell Biology, Membrane Biology, and Neuroscience - that promote interaction between faculty, fellows, and graduate students. Three NIH training grants provide core support for the strong graduate training program. The position is highly competitive with regard to start-up funds, laboratory space, salary, and benefits. Applicants should submit (1) curriculum vitae, (2) concise statement of research experience and plans, and (3) names of three references to: Robert D. Koos, Ph.D., Chair, Molecular Reproductive Biology Search Committee, Dept. of Physiology, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201-1559; Tel. 410/706-8033. Review of applications will begin January 8, 1996. *The University of Maryland at Baltimore is an Affirmative Action/Equal Opportunity/ADA Employer, and has a strong institutional commitment to the principal of diversity in all areas.*

MYRIAD GENETICS, INC.

Positions Available

Myriad Genetics, located adjacent to the University of Utah and in the foothills of the Wasatch Mountains, is a publicly-held genomics company focused on the isolation of significant disease-causing genes. Our scientific achievements include elucidating the role of the p16 tumor suppressor gene in human cancer (Science 264: 436-440), and the identification of the breast and ovarian cancer susceptibility gene BRCA1 (Science 266: 66-71). We currently have active programs in the areas of cancer, coronary heart disease, asthma, obesity, and osteoporosis. We also have major corporate collaborations with Ciba Geigy and Bayer pharmaceutical companies. We currently have the opportunity to expand our research efforts in the following areas:

Project Director: Requires a Ph.D. or equivalent, postdoctoral training, and at least five years of independent research experience. The ideal candidate will possess a strong background in molecular biology or genomics research and proven managerial ability.

Research Associates: Requires an M.S. or B.S. degree and a minimum of two years' molecular biology experience, or a Ph.D. without postdoctoral training. ABI sequencing and/or linkage analysis experience is preferred.

Scientific Applications Programmer: An M.S. degree in scientific or numerical subject and significant experience with C in a UNIX environment are essential.

Database Developer & Administrator: Requires a B.S. degree or equivalent and two years of experience with SYBASE, C, and UNIX.

Experience in genetics and DNA sequence analysis is preferred for both programmer positions. Macintosh experience is desirable.

We offer a competitive compensation package and a highly stimulating, interactive environment. Please send or 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.





MOLECULAR BIOLOGISTS

There's no better place to pursue a research career than with CIBA, a company recognized worldwide for innovative drug therapies that fulfill unmet medical needs. As part of an ongoing commitment to research excellence, we have several opportunities for molecular biologists with proven research experience.

Join a world class research effort on the forefront of discovery.

Working with a multidisciplinary team of scientists involved in drug discovery research, you will use your knowledge of molecular biology to identify novel cellular targets for drug discovery in cardiovascular disease. Qualified candidates should have experience in the molecular techniques used to study signal transduction pathways and gene expression. A bachelor's degree and lab experience is required; a master's degree is preferred.

We offer a competitive salary, excellent benefits and an environment designed for professional development. For confidential consideration, please send your resume with salary requirements to: **Staffing Center, Ciba Pharmaceuticals Division, Department JN-398, 556 Morris Avenue, Summit, NJ 07901.** We are an equal opportunity employer M/F/D/V.

Preparing for the future



Microcide Pharmaceuticals Inc. has several positions for highly motivated and qualified individuals in our **Discovery Biology Department**.

Research Associates for positions in molecular microbiology. Qualified applicants will have a BA/BS or MA/MS and experience in a research laboratory using techniques of bacterial genetics and molecular biology (including recombinant DNA techniques and PCR amplification). Macintosh literacy is desired.

High Throughput Screening. Qualified applicants will have at least 4 years experience in high-throughput screening, strong creative skills, supervisory skills and a desire to undertake a challenging high throughput screening/database management position. Experience in anti-infective screening, the evaluation of natural product and synthetic compound leads, and screen design are preferred. Knowledge of antibacterial agents, bacterial genetics and physiology are desirable.

Microcide is an innovative San Francisco Bay Area pharmaceutical company focused on the discovery and development of novel antimicrobial agents for the treatment and prevention of human infections of bacterial origin. We have exciting opportunities for persons with initiative, flexibility and energy. We offer a competitive salary, excellent benefits and equity participation. Good communication skills, a teamwork orientation, and commitment to excellence are necessary for all positions.

Please send or FAX your resume to: **Employment Officer - Discovery Biology Department, Microcide Pharmaceuticals, 850 Maude Avenue, Mountain View, CA 94043. FAX (415) 428-3534.** An equal opportunity employer.

Research Scientist

Neurophysiology

Lockheed Martin Engineering & Science Services is seeking candidates for a research position on our life sciences support contract at the NASA/Ames Research Center (ARC) in Mountain View, California. The research program at ARC, led by Dr. David Tomko, utilizes unique ground research facilities (including acceleration sleds and centrifuges) and spaceflight experiments, to study the effects of microgravity and acceleration on the vestibular system and vestibulo-ocular reflexes.

We are interested in individuals who will complement the existing research team. Acceptable candidates will have a Ph.D. in life sciences or bioengineering and 0-3 years relevant research experience. Background in computerized data collection and analysis is preferred. Training in rodent and primate surgery is valuable.

Applicants should have strong written and verbal communication skills in English and the ability to work successfully as part of an integrated research team. A publication record should reflect the ability to make independent contributions to a research program.

Lockheed Martin offers competitive salaries and comprehensive benefits. For consideration, please forward your resume or curriculum vitae to: Ms Blythe Asagi, Human Resources, Lockheed Martin Engineering & Science Services, P.O. Box 168, Moffett Field, CA 94035-0168. Lockheed Martin is an equal opportunity, affirmative action employer.

LOCKHEED MARTIN



Engineering & Science Services

THE STATE UNIVERSITY OF NEW JERSEY RUTGERS

GRADUATE RESEARCH TRAINING in CELLULAR/MOLECULAR BIODYNAMICS

Applications are accepted immediately for multidisciplinary Ph.D. program in CELLULAR and MOLECULAR BIODYNAMICS, funded by the NSF and consisting of research faculty from the Departments of Chemistry, Biological Sciences, Physics, and Behavioral and Neural Sciences. The students receive 5 years of full support (\$14,000 + tuition). There is a strong emphasis on training in research techniques and strategies in BIOPHYSICS with special courses in: Biological Spectroscopy, Biological Optics and Cellular Biophysics. General areas of research training in laboratories well equipped with state-of-the-art instrumentation include: Biochemistry, Biophysics, Biomolecular Spectroscopy, Computational Modeling, Immunology, Laser Optics, Light and Electron Microscopy, Molecular Biology, Neuropharmacology, Neurochemistry and Neurophysiology. Qualified UNDERGRADUATE STUDENTS are also invited to apply for summer research internships (\$2500 stipend). Applicants must be citizens or permanent residents of the US.

For further information and application forms, contact: **Dr. Frank Jordan, Director, Program in Cellular and Molecular Biodynamics, Department of Chemistry, Rutgers University, Newark, NJ 07102.** FAX 201-648-1264; e-mail: frjordan@andromeda.rutgers.edu.

Rutgers is an EE/AA employer and our Program specifically invites and encourages applications from women, minorities and the physically challenged.

FELLOWSHIP PROGRAMS UNITED STATES - ISRAEL

BARD, The United States-Israel Agricultural R&D Fund, announces two Fellowship Programs promoting cooperative agricultural research.

The POSTDOCTORAL FELLOWSHIP PROGRAMS provide support for candidates who are citizens of either the United States or Israel and who have fulfilled the requirements for the Ph.D. degree within the last three years. American candidates must carry out their fellowship research in Israel and Israeli candidates must carry out their fellowship research in the United States. The initial award is for one year and, under certain conditions, a one year extension will be considered. The award for the first year is \$27,000 for living and travel expenses and a one time, \$2,000 allowance for children (one or more). This is paid directly to the fellow. An allowance not exceeding \$3,000 may also be paid to the host institution for operating expenses incurred in the research.

The RESEARCH FELLOWSHIP PROGRAM is intended to support citizens of the United States who are established research scientists in American non-profit research institutions, universities or federal and state agencies during a period of 4 to 12 months in Israel. The grant is \$3,000 per month and will be paid in coordination with the base institution of the fellow. One round trip air ticket will be provided.

Applications for either program must reach BARD's offices by **January 15**.

For information on application procedures please contact BARD's offices at:

BARD
USDA-ARS-OIRP
Room 102, Bldg. 005, BARC-West
Beltsville, MD 20705
U.S.A.

Tel: 301-504-5605
Fax: 301-504-5298

BARD
The Volcani Center
P.O.B. 6
Bet Dagan
Israel 50250

Tel: 972-3-9655133
Fax: 972-3-9662506

GLOBAL CAREER OPPORTUNITIES

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF SCIENCE

Head of Department of Biology

The Hong Kong University of Science and Technology (HKUST) was opened in October 1991 as a technological university with special emphasis on research, graduate education, and close collaboration with industry and business. Enrollment is expected to grow to 7,000 (FTE) by 1997/98. The School of Science which comprises five departments: Biochemistry, Biology, Chemistry, Mathematics, and Physics enrolls about 1/4 of the University's undergraduate and graduate students.

The Department of Biology has comprehensive teaching and research programmes which cover all levels of biological organization, with emphasis on the molecular and cellular levels. The following academic degrees are offered: Bachelor of Science, Master of Science, Master of Philosophy and Doctor of Philosophy. Currently, there are 23 faculty members specializing in 1) molecular, cellular and developmental biology, 2) environmental and marine biology, 3) tumor biology, 4) neurobiology, and 5) plant biology. By the academic year 1997/98, the faculty size will grow to 26.

Qualifications and Experience

Applications/nominations are invited from well-qualified and accomplished biologists for the position of Head of the Department of Biology. In addition to extensive teaching and research experience, the successful candidate must have demonstrable leadership qualities necessary to lead and manage the Department.

Salary and Conditions of Service

Salary will be highly competitive. Generous fringe benefits including medical and dental benefits, annual leave, housing and children's education allowances are provided; air passages are also provided where applicable. Initial appointment will be on a three-year contract, a gratuity of an amount equal to 25% of the total basic salary drawn will be payable upon successful completion of contract.

Application/Nomination Procedures

Applications/nominations together with a detailed curriculum vitae and the names and addresses/fax numbers of three to five referees should be sent to the Director of Personnel, The Hong Kong University of Science and Technology, Clearwater Bay, Kowloon, Hong Kong (Fax No.: (852) 2358-0700) **before 31 January 1996**. Please quote Ref. BIOL.HD on your application/nomination. The search will continue until a suitable appointment is made.

George Mason University

Director, Molecular Bioscience and Technology Institute (MBTI)

In 1997, the university will open a new facility for research and education in molecular bioscience and technology. The Molecular Bioscience and Technology Institute is a newly formed unit that will be located at the Prince William Campus of George Mason University, adjacent to the new laboratory of the American Type Culture Collection (ATCC). GMU and ATCC will have a joint interest in the MBTI as it is the principal vehicle for their cooperative academic enterprise. The MBTI and ATCC will serve as the nucleus for a university and commercial biotechnology center in Northern Virginia.

The university is seeking an Institute Director with an outstanding record in research and research management and a capability for developing innovative academic programs at the M.S. and Ph.D. levels to be integrated with the research effort. The candidate must have demonstrated significant ability as an institution developer. Toward this end, there will be a substantial number of new faculty positions in the Institute in areas of scientific expertise chosen in consultation with the Director. The Director will also relate closely to ATCC management and staff in the GMU-ATCC cooperative academic enterprise.

The Director should qualify for a full professorship and will have a twelve-month administrative appointment at a competitive senior salary. The position is available immediately. Nominations and applications will be accepted until the position is filled and should be sent to **Harold J. Morowitz, Chair, Search Committee, Krasnow Institute for Advanced Study at George Mason University, Mail Stop 2A1, George Mason University, Fairfax, VA 22030. Review of applications will begin on February 1, 1996.**

AA/EOE Employer

GLOBAL CAREER OPPORTUNITIES



UNIVERSITY OF DUBLIN

TRINITY COLLEGE

CHAIR OF GEOLOGY AND MINERALOGY (1844)

Applications are invited for appointment to the Chair of Geology and Mineralogy which has become vacant on the retirement of Professor C H Holland.

The successful applicant will have a distinguished reputation and an established record of research in any of the constituent disciplines of the subject and will be expected to provide academic leadership through a strong commitment to teaching and research.

The appointment will be effective from 1 October 1996 or as soon as possible thereafter.

Information about the Department of Geology and further particulars of the appointment, including details of salary and other benefits, may be obtained from:

Michael Gleeson
Secretary to the College
West Theatre
Trinity College
Dublin 2

Telephone: +353 1 608 1123/2197

Fax: +353 1 671 0037

e-mail: secretary@tcd.ie

The preferred closing date for receipt of applications is
31 January 1996.

Trinity College is an equal opportunities employer.

Associate Dean for Research and
Assistant Director of the
Minnesota Agricultural Experiment Station

College of Agricultural, Food,
and Environmental Sciences
University of Minnesota, Twin Cities

The College of Agricultural, Food, and Environmental Sciences and the Minnesota Agricultural Experiment Station (MAES) seek an Associate Dean for Research and an Assistant Director of MAES. The successful applicant will report directly to the Dean and will assist the Dean in managing and coordinating research activities. He or she will also have primary responsibility and authority for administering the five Branch Stations. Salary is open and commensurate with experience.

Qualifications

The successful applicant for this position must have an earned doctorate in an agricultural, biological, environmental, or food-related field and five years' professional, post-doctorate research experience. Desired qualifications include research experience beyond the five-year minimum; a record of productive research, education, and scholarly activity; research or administrative experience in an academic institution; administrative experience involving familiarity with budgets and finance; demonstrated leadership skills; demonstrated familiarity with state and federal research and experiment station systems and with agricultural production; familiarity with interdisciplinary research; demonstrated excellence in written and verbal communication; and demonstrated commitment to affirmative action, cultural diversity, and equal opportunity for women and minorities.

Send all applications, nominations, and requests for complete position descriptions no later than **January 8, 1996** to:

Billie Wahlstrom, Ph.D.
Chair, Search Committee
201 Haecker Hall
University of Minnesota
St. Paul, MN 55108-1030
Telephone: (612) 624-3445
Fax: (612) 624-3617

U of M is an EEO educator and employer.

香港

大學



**THE UNIVERSITY
OF HONG KONG**

Lectureship/Assistant Lectureship in Physiology

Applications are invited for a Lectureship/Assistant Lectureship (non-clinical) in the Department of Physiology (RF-95/96-53), tenable from 1 April 1996 or as soon as possible thereafter. Appointment will be made on a fixed-term basis of three years, with a possibility of renewal. Applicants should possess a PhD, MBBS, MD or equivalent qualification, with demonstrated ability to establish an independent and extramurally fundable research programme which complements ongoing programmes, and to teach Physiology to undergraduate and postgraduate students. Two to three years of post-doctoral experience in Physiology or related research areas with excellent organizational, supervisory and communication skills are desirable. Applicants should indicate clearly which level they wish to be considered for.

Annual salaries [non-superannuable but attracting 15% (taxable) terminal gratuity] are on the following scales, with starting salary depending on qualifications and experience: Lecturer HK\$454,200 - HK\$758,700 (11 points: approx. US\$58,987 - US\$98,532); Assistant Lecturer HK\$330,780 - HK\$423,360 (4 points: approx. US\$42,958 - US\$54,981). US\$ equivalents as at 9 November 1995.

At current rates, salaries tax will not exceed 15% of gross income. Children's education allowances, leave, and medical benefits are provided; housing or tenancy allowances are also provided in most cases at a charge of a percentage of salary, currently 7 1/2%.

Further particulars and application forms may be obtained from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (fax: [852] 2559 2058; E-mail: APPTUNIT@REG.HKU.HK). Particulars are also available on the University's listserv accessed by E-mail as "listserv@hkum1.hku.hk" (specify "get apptment filelist" for list of vacant posts). Closes **2 January 1996**.

NFR Naturvetenskapliga forskningsrådet
Swedish Natural Science Research Council

Box 7142 103 87 Stockholm Tel 08-454 42 00 Fax 08-454 42 50

invites applications for

RESEARCH POSITIONS in

Analogue Tectonic Modelling
Astrophysics
Asymmetric Synthesis
Atomic and Molecular Physics
Biomolecular Structure Transitions
and Dynamics
Couplings between the Biogeochemical Cycle and
Global Climate
Global Scale Dynamics of the Biogeosphere,
particularly Soil-Water Interaction
Non-Perturbative Quantum Theories
Nucleotide and Nucleoside Chemistry
Reaction Dynamics

The Council's intention in creating these posts is to contribute to the recruitment of researchers and to bring new life into research. The programme is, therefore, aimed primarily at early to mid career researchers. These positions will be at an appropriate university department within Sweden to be chosen in consultation between the candidate, NFR and the university. Tenure will be for three years as from July 1, 1996 and may be prolonged for another three years. The salary range will correspond to that of an associate professor (SEK 300 000-350 000 per year, ie USD 44 000-52 000 per year). Applications should reach the Swedish Natural Science Research Council, Box 7142, S-103 87 Stockholm, Sweden, by February 15, 1996. A curriculum vitae including a list of publications, a short research plan and a maximum of 10 reprints of scientific papers should be appended in four copies to the application which should also be in quadruplicate. Further information can be obtained from Ms. Natalie Lunin at the Secretariat of NFR, phone no. +46 8 454 42 32, fax no. +46 8 454 42 50.



UNIVERSITY OF DUBLIN

TRINITY COLLEGE

UNIVERSITY CHAIR OF BOTANY (1711)

Applications are invited for appointment to the Chair of Botany (1711). The Department has established strength in research in the fields of ecology, ecophysiology, palaeoecology, taxonomy and mycology. This includes special interests in carbon fixation and partitioning, forest ecology, soil plant relationships, aerobiology, bioindicators, and the taxonomy of S E Asian floras. Collaboration is active with groups throughout Ireland and the rest of Europe, North and South America, East Africa, S E Asia and Australia. The resources of the Department include a major herbarium and a botanic garden.

The Department of Botany's main teaching contribution is to its 4 year Honors course leading to a B A (Moderatorship) in Botany. Contributions are also made to the Moderatorship courses in Environmental Sciences and Earth Sciences.

The successful applicant will have a distinguished reputation in research and will be expected to provide strong leadership in both teaching and research. The person appointed will serve as Head of Department in accordance with College regulations concerning headship.

The appointment will be effective from 1 October 1996 or as soon as possible thereafter.

Information about the Department of Botany and further particulars of the appointment, including details of salary and other benefits, may be obtained from:

Michael Gleeson, Secretary to the College
West Theatre, Trinity College, Dublin 2

Telephone: +353 1 608 1123/2197/Fax: +353 1 671 0037

e-mail: secretary@tcd.ie

The preferred closing date for receipt of applications is: **31 January 1996**.

Trinity College is an equal opportunities employer.

Royal Netherlands Academy of Arts and Sciences calls for nominations for the Heineken Prizes 1996

The Royal Netherlands Academy of Arts and Sciences (KNAW) selects the recipient of the

- Dr H.P. Heineken Prize for Biochemistry and Biophysics 1996
- Dr A.H. Heineken Prize for Medicine 1996
- Dr A.H. Heineken Prize for Environmental Sciences 1996

These biennial prizes, offered by the Heineken Foundation and the 'Alfred Heineken Fonds' Foundation, rewards outstanding scientific achievement in the field of biochemistry and biophysics, medicine and environmental research.

Along with a permanent token each Prize consists of Dfl. 250,000.-- (about US \$ 160,000.--) to be spent at will.

Nominations are restricted to individual, active scientists whose contributions to biochemistry and biophysics, medicine

or environmental research should be outstanding and a source of inspiration to others.

Nominations must include a description of the research work and publications on which the nomination is based, a curriculum vitae, bibliography, and one or two key publications. The deadline for nominations is January 1, 1996.

Nomination forms and general information are available from the

Secretariat of the Heineken Prizes,
Royal Netherlands Academy of Arts and Sciences
P.O.Box 19121, 1000 GC Amsterdam, The Netherlands

Telephone: 31 (0) 20 55 10 769, telefax: 31 (0) 20 6 20 49 41

Royal Netherlands Academy of Arts and Sciences



**KWAZULU-NATAL PROVINCIAL
ADMINISTRATION
SOUTH AFRICA**

FACULTY OF MEDICINE

Applications are invited from suitably qualified persons for appointment to the following posts which are on the Joint Medical Staff Establishment carrying University conditions of service.

Remuneration will be in accordance with that specified by the Public Service and will be made known upon request.

**(Chief Specialist) Professor and
Head of the Department**

DEPARTMENT OF HUMAN ANATOMY

ADV: MS 15/95 **Closing date: 28.02.1996**
Applicants must have a higher qualification in Anatomy or some aspect of clinical medicine and be registrable with the South African Medical and Dental Council as a Specialist. Experience in undergraduate and postgraduate medical education together with a strong academic background and a proven research record are University prerequisites. Candidates will be judged on their academic and service performance, research background, educational experience and administrative ability.

DEPARTMENT OF VIROLOGY

ADV: MS 18/95 **Closing date: 28.02.1996**
Applicants must have a higher qualification in Virology and be registrable with the South African Medical and Dental Council as a Specialist Virologist or have appropriate experience as a medical scientist. Experience in undergraduate and postgraduate medical education together with a strong academic background and a proven research record are University prerequisites. Candidates will be judged on their academic and service performance, research background, educational experience and administrative ability.

These are full time posts, however, limited private remunerative work may be considered upon application.

Access to teaching facilities, communities and laboratories provide opportunities for research across a wide clinical spectrum.

Application forms are available from the Personnel Section, Faculty of Medicine, P O Box 17039, Congella 4013, South Africa, Telephone +27-31-260-4419. Fax: +27-31-260-4410.

A major French pharmaceutical company is seeking for its research centre located in the west area of Paris a young scientist for a

POST-DOCTORAL POSITION Cardiovascular Research

Qualifications include a PhD in biochemistry, cell or molecular biology and practical experience of classical techniques used in these fields. The position is an excellent opportunity to share and to gain valuable experience in a stimulating environment.

The successful candidate will join a pharmacology department active in cardiovascular drug discovery and will be involved in the study of the pathophysiology of the vascular wall (endothelial dysfunction, proliferation of vascular smooth muscle cells).

The position is vacant for 18 months.

Applicants are invited to send a curriculum vitae with a handwritten letter and a photo to Media System, 6 impasse des Deux Cousins 75849, Paris Cedex 17 France, quoting reference 19396.



**Deutsches
Krebsforschungszentrum**
Stiftung des öffentlichen Rechts

**Universität
Heidelberg**

The German Cancer Research Center (DKFZ) and the University of Heidelberg are establishing a clinical cooperation unit of Dermato-Oncology at the Department of Dermatology of the Klinikum-Mannheim, in order to promote cooperation between basic research, clinical research and patient care. The clinical cooperation unit will be a division of the DKFZ and located initially for a five year period within the premises of the Department of Dermatology at the Klinikum Mannheim. Tenure will depend upon the success of the cooperation and the scientific results.

The head of the clinical cooperation unit will be offered a

Professorship (C3) for Dermato-Oncology

at the Faculty of Medicine at Mannheim, University of Heidelberg.

Preference will be given to applicants with a focus on basic research in molecular and cell biology. Innovative and substantial contributions to the development of basic research into clinical applications, including methods of gene technology, are expected.

Medicinal licence ("Approbation") is required, board certification in Dermatology and "Habilitation" or equivalent scientific work are expected.

Applications with a curriculum vitae and a complete list of publications should be sent to:

Deutsches Krebsforschungszentrum, Wissenschaftlicher Stiftungsvorstand Im Neuenheimer Feld 280, D-69120 Heidelberg by 31 January 1996.

The Chinese Academy of Sciences
with the support of
the Max-Planck-Gesellschaft
intends to establish the second
Independent Research Group
at the Shanghai Institute of Cell Biology
for a
Promising Chinese Scientist
Applications are invited for a position as a
Research Group Leader

from scientists from China or abroad who have achieved a degree of international recognition in their field, preferably in

Developmental Biology
Cell Biology
Molecular Biology or
Neurobiology

The Research Group Leader will be expected to conduct fully independent, original and dynamic research programs.

The position commands full scientific and economic independence and is limited to a maximum of five years; it is paid according to Chinese regulations. In addition, special social benefits, a supplement in foreign currency and travel grants are offered. The group will have modern laboratory facilities and funding for scientific and technical co-workers. The operating expenses include funds in foreign currency.

Applications, including a tabular curriculum vitae, a list of publications with reprints of three selected papers, a description of major scientific achievements and a summary of future research plans, should be submitted in English by January 15th 1996, to:

Professor Uli Schwarz (director)
Max-Planck-Institut für Entwicklungsbiologie
Postfach 2109, 72011 Tübingen, Germany
Fax No. 0049-7071-601447

Applicants from China are strongly encouraged to submit their applications.

A group of finalists will be invited to present their projects at a symposium in Shanghai in the first half of April 1996. Travel and accommodation expenses will be covered.



KAROLINSKA INSTITUTET
Department of Bioscience at Novum
Center for Structural Biochemistry
Research assistant/ Postdoctoral fellow
NMR spectroscopy in biology

The position is available within the Unit for NMR Spectroscopy at the Center for Structural Biochemistry (CSB), at the Department of Bioscience. The CSB is situated at the South Campus of the Karolinska Institutet encompassing the NOVUM Research Park in Huddinge, about 20 km south of the center of Stockholm. The CSB has a staff of about 30 researchers and includes units for X-ray crystallography, molecular modelling, electron microscopy and NMR spectroscopy. The NOVUM Research Park provides an excellent environment with over 400 researchers within various biomedical disciplines.

The research within the Unit for NMR Spectroscopy concerns structural and biophysical studies of biomolecules. Present projects include studies of nuclear receptors, PCB-binding proteins, ribosomal proteins and DNA-binding proteins from archaeobacteria. The NMR unit is equipped with a Varian Unity 500 MHz NMR spectrometer with all necessary hardware and extensive computing resources.

The applicant should have a background in the application of NMR spectroscopy for studies of biomolecular structure and dynamics. A second condition is that applicants should have experience in protein expression and/or protein biochemistry. The position is available for four years with an initial limitation of one or two years.

For further information contact Dr. Torleif Härd (email: th@csb.ki.se) (questions regarding qualifications etc.) or Ingvar Lennerfors (administrative questions) +46-8 608 92 23.

Applications should be sent to Karolinska Institutet, Department of Bioscience at Novum, S-141 57 HUDDINGE, SWEDEN together with CV, relevant publications, a short description of research interests and two recommendation letters. Please quote reference no. 53021/8 and note that we want your application in 1 original and 1 copy.

Closing date: December 22, 1995

POSITIONS OPEN

SCIENCE WRITER—The Office of Public Affairs of a scientific society representing 25,000 members seeks a well-organized **SCIENCE WRITER**. Responsibilities include preparing news releases, a news column on issues that affect science, and newsletter articles explaining the importance of basic neuroscience research. Experience required: at least five years of science reporting and writing, familiarity with neuroscience, and proven ability to make complicated concepts understandable to the public. Knowledge of science funding and congressional science politics is helpful. Must be able to handle multiple projects and respond quickly to changing demands. Excellent benefits, including health and pension plans. Salary is around \$40,000. Mail cover letter, résumé, and three clips of science articles before January 1, 1996 to: Science Writer, Society for Neuroscience, 11 Dupont Circle NW, Suite 500, Washington, DC 20036. No telephone calls please.

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain the Doctor of Optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. Chauncey, Program Director, Accelerated Program, The New England College of Optometry, Room S, 424 Beacon Street, Boston, MA 02115.

Medical University of South Carolina (MUSC)

Offers programs leading to Ph.D. and M.D./Ph.D. degrees in each of the basic biomedical sciences (biochemistry, microbiology/immunology, pathology, pharmacology, physiology), biometry/epidemiology, pharmaceutical sciences, and molecular and cellular biology. Competitive stipends of \$15,000 available. Contact: College of Graduate Studies, MUSC, 171 Ashley Avenue, Charleston, SC 29425-2501.

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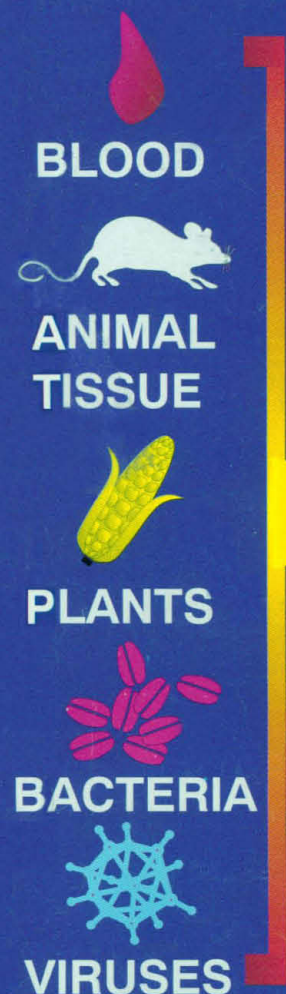
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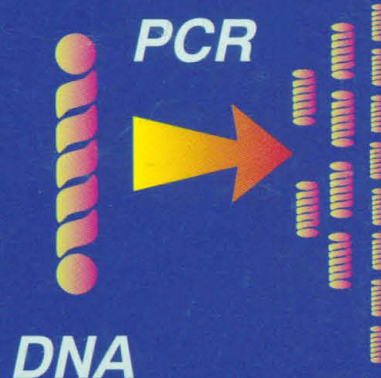
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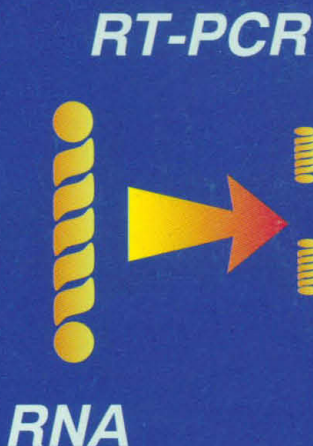
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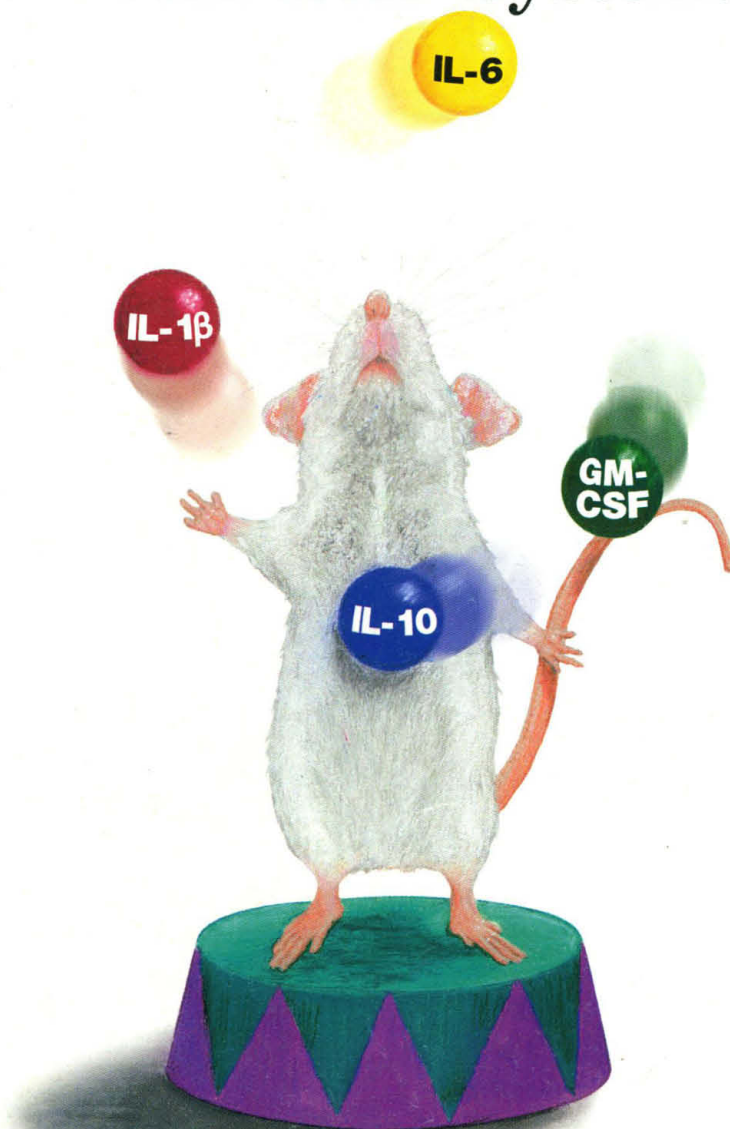
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