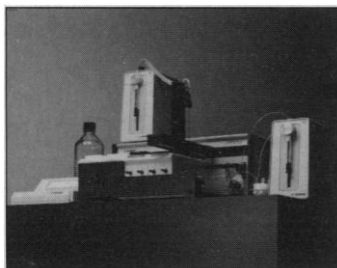


Cleanup and Concentration of Samples

The ASTED XL System is a robotic sampling injector designed to automate on-line deproteinization of complex sample matrices



prior to high-performance liquid chromatography injection. For sample cleanup, the system features a patented dialysis technology and offers the option of concentration on a trace enrichment cartridge. Total cleanup time is 3 to 5 min per sample, a significant improvement over traditional manual methods such as liquid-liquid extraction, which can take hours. **Gilson Medical Electronics. Circle 139.**

Protein Solution Desalter

IonClear BigBead reduces ionic strength of protein solutions in preparation for ion exchange chromatography. It allows for the direct capture of antibodies and proteins from the fermentation and cell culture harvest without the need for a three- to fivefold dilution. IonClear BigBead replaces diafiltration with a gentle ion absorption process. Recoveries and biological activities are typically > 99%. It typically works in less than 10 min, greatly reducing processing time compared with diafiltration. **Sterogene Bioseparations. Circle 140.**

Data Recording on the Macintosh

AcqKnowledge 3.0 is an upgrade of a system for data recording on the Macintosh computer in conjunction with BIOPAC's line of

physiological monitoring equipment. Modular signal conditioning amplifiers allow easy acquisition of most physiological signals such as EEG (brain activity), ECG (heart), respiration, skin conductance, muscle activity, and eye movement. New features include real time digital filtering, histograms, multiple acquisition experiments in a single file, automatic timed file saving, bar graph indicators, XY plotting, complex expression evaluator, easy access tool bar, and a powerful stimulus signal creation system. **BIOPAC Systems. Circle 141.**

Visual Data Analysis Software

Spyglass Transform is a new version of a visual data analysis program for Windows and Windows NT systems. Versions of the program for Macintosh and UNIX computers are also available. The program lets scientists and engineers quickly analyze large matrix and image data sets. Surface plots, color raster images, line graphs, contour plots, and vector plots can be created from matrix data with simple point-and-click operations that require no programming. **Spyglass. Circle 142.**

Subtractive Hybridization

Dynabeads Oligo (dT)₂₅ allow production of reusable subtracted cDNA probes for simplified screening of differentially expressed genes and for isolation of rare messages. Polyadenylated RNA from one cell type is isolated with Dynabeads Oligo (dT)₂₅ in 15 min. Direct cDNA synthesis of the mRNA template extends from the oligo(dT) primer present on the magnetic beads. Following elution of the mRNA

template, the cDNA probes bound to the magnetic beads are then hybridized to mRNA of a second cell type. These common sequences are removed by magnetic separation. Unique mRNA sequences are then captured with a second aliquot of Dynabeads Oligo (dT)₂₅ and cDNA synthesis results in subtracted cDNA probes. **Dynal. Circle 143.**

HPLC System with Mass Spectral ID

The Waters Integrity System is a high-performance liquid chromatography (HPLC) system with mass spectral compound detection capabilities. The system contains a mass spectrometry detector in a



user-oriented format that is simpler, more compact, and more economical than any mass spectrometer adapted for HPLC work, according to the manufacturer. The mass detector provides library searchable mass spectra for identification of up to 1000 atomic mass units. **Millipore. Circle 144.**

Fast Gel Destaining

Gel Destaining Beads allow the user to destain protein gels without waiting overnight. The beads rapidly remove background Coomassie stain from ProRanger and polyacrylamide gels. Protein bands typically become visible in 30 min, with complete destaining in 1 to 2 hours. **AT Biochem. Circle 145.**

Murine Cytokine Assays

Five new Cytoscreen test kits for studying murine immunological systems could play a role in the study of AIDS, cancer, and other immunological disorders. The new kits are mouse interferon- γ , and four mouse interleukin kits (mIL): mIL-2, mIL-4, mIL-6, and mIL-10. Samples can be serum, plasma, or tissue culture supernatant. Sensitivity of the enzyme-linked immunosorbent sandwich-based assays is ≤ 10 pg/ml. **Bio-source International. Circle 146.**

Literature

Infrared Spectroscopy Supplies Catalog provides 64 pages of information on infrared cells for liquid sampling, accessories for solid sampling, accessories for gas sampling, polarizers and sampling kits, sample holders and calibration standards, reflectance and emission accessories, and more. **Perkin-Elmer. Circle 147.**

Life Science Research Products 1994-95 catalog contains groupings for specific products including ultrapures, restriction enzymes, modifying enzymes, and antisera. The catalog is also available on diskette, in DOS, Windows, and Macintosh formats. **United States Biochemical. Circle 148.**

Ultima Premium Laser Confocal Microscope System is a brochure on a device that couples an ultraviolet (UV) and visible light laser with two independent, optically corrected light paths to provide simultaneous excitation of the UV line and one of the two visible lines. **Meridian Instruments. Circle 149.**

RapidVap Evaporation Systems is a 12-page brochure on a line of multiple sample evaporators that use vortex motion, heat, and vacuum or nitrogen blow-down to quickly evaporate solvents from biological and environmental samples. **Labconco. Circle 150.**

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

Science

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Telephone: 202-326-6541

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POSITIONS OPEN

Molecular biology (prefer plant emphasis), tenure-track **ASSISTANT PROFESSOR.** Teach 2 majors courses, general education course; co-teach introductory majors course. Develop research involving undergraduates. Link molecular to macro levels. Send letter, résumé, transcripts, sample of professional work, teaching evaluations (if available), 3 reference letters to: **Dean K. P. Goodrich, Linfield College, McMinnville, OR 97128-6894.** Screening begins April 6, 1994. *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION IN BACTERIAL PATHOGENESIS

The Department of Microbiology at the College of Physicians and Surgeons of Columbia University is soliciting applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR.** Applicants should have a strong background in prokaryotic molecular genetics and experience in an area directly related to bacterial pathogenesis. Applicants should have demonstrated a high level of academic achievement and the potential for developing an active research program. The Department has an active Graduate Program and all faculty are expected to maintain a strong commitment to graduate education. Interested individuals should send curriculum vitae and a statement of research interests, and also arrange to have three letters of reference sent to: **The Microbiology Search Committee, Department of Microbiology, College of Physicians and Surgeons, Columbia University, 701 West 168th Street, New York, NY 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR: Tenure-track. Teach microbiology and introductory level courses. Supervise undergraduate research projects. Ph.D. required, previous teaching experience preferred. Submit application, curriculum vitae, 3 reference letters and official transcripts to: **Dr. Michael Held, Biology, Saint Peter's College, Jersey City, NJ 07306.** Deadline for applications April 4, 1994. *Saint Peter's College is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION ASSISTANT OR ASSOCIATE PROFESSOR

Division of Medicinal Chemistry & Pharmacuetics College of Pharmacy, University of Kentucky

Applications are being accepted for a tenure-track faculty position in the Division of Medicinal Chemistry & Pharmacuetics of the University of Kentucky College of Pharmacy. The successful candidate will be expected to develop and/or maintain an independent and innovative research program in the pharmaceutical sciences. We are particularly interested in the areas of drug delivery and/or biotechnology. Many collaborative opportunities exist within the University of Kentucky Medical Center, which contains multidisciplinary research centers for pharmaceutical science and technology, cancer, aging, and membrane sciences. This faculty member will also actively participate in the teaching of formal courses in the professional and graduate programs, and take part in the direction of Ph.D. dissertation research. The application and selection process will begin immediately and continue until the position is filled. To apply, submit curriculum vitae, a statement of research interests, and three letters of recommendation to: **Peter A. Crooks, Ph.D., Division of Medicinal Chemistry & Pharmacuetics, College of Pharmacy, University of Kentucky, Lexington, KY 40536-0082.** *The University of Kentucky is an Equal Employment Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR

The Department of Biology invites applications for a tenure-track position for a plant physiological ecologist beginning fall 1994. A Ph.D. is required. The candidate is expected to teach in the areas of plant physiology, plant anatomy, general biology and graduate courses in the area of specialty. Development of an active research program, pursuit of extramural support and supervision of M.S. students are also required. Submit résumé and 3 letters of reference by April 30, 1994, to: **Dr. Klaus Brasch, Chair, Department of Biology, California State University, 5500 University Parkway, San Bernardino, CA 92407; FAX: 909-880-7005.** *An Equal Opportunity/Affirmative Action/Section 504, Title IX Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR

The Department of Biology invites applications for a tenure-track position for a vertebrate biologist beginning fall 1994. A Ph.D. is required. The candidate is expected to teach in the areas of comparative vertebrate anatomy, human anatomy and physiology, and general biology, as well as graduate courses in the area of specialty. Development of an active research program, pursuit of extramural support and supervision of M.S. students are also required. Submit résumé and 3 letters of reference by April 30, 1994, to: **Dr. Klaus Brasch, Chair, Department of Biology, California State University, 5500 University Parkway, San Bernardino, CA 92407; FAX: 909-880-7005.** *An Equal Opportunity/Affirmative Action/Section 504, Title IX Employer.*

ASSOCIATE PROFESSOR/PROFESSOR Division of Pharmacology and Medicinal Chemistry

The College of Pharmacy, University of Cincinnati Medical Center, solicits applications for a full-time tenure-track position at the associate professor or professor level. Applicants must possess a Ph.D. in pharmacology, medicinal chemistry or a closely related field. While the area of research emphasis is open, preference will be given to those applicants whose interests complement existing programs in the Division and the focus areas of the Medical Center, which include cardiovascular, cancer and neuroscience research. The successful candidate will be expected to demonstrate an established record of productive, funded research with transferable NIH or equivalent funding. All faculty are expected to participate in the undergraduate and graduate teaching responsibilities of the Division. Review of applications will begin April 15, 1994, and continue until the position is filled. Send complete curriculum vitae including publications, funding history and the names, addresses and telephone numbers of three references to: **Dr. William Cacini, Division of Pharmacology and Medicinal Chemistry, College of Pharmacy, University of Cincinnati Medical Center, 3223 Eden Avenue, Cincinnati, OH 45267-0004.** *The University of Cincinnati is an Affirmative Action/Equal Employment Opportunity Employer.*


TENURE-TRACK, ASSISTANT PROFESSOR NUTRITION AND FOOD SCIENCES

Nine-month position starting fall 1994. Ph.D. in nutrition required. Responsibilities include teaching graduate and undergraduate nutrition courses (including introductory courses in nutrition and health), advising, and developing research program complementing departmental research. Send cover letter, curriculum vitae, and 3 letters of reference to: **Dr. Andie Hsueh, Chair, Search Committee, Department of Nutrition and Food Sciences, Texas Woman's University, Denton, TX 76204.** Review begins April 15, 1994. *Affirmative Action/Equal Opportunity Employer.*

The Department of Zoology at the University of New Hampshire invites applicants for a tenure-track position at the rank of **ASSISTANT PROFESSOR.** We seek those with research interests in the phylogeny of marine invertebrates who make use of molecular and/or ultrastructural techniques. Teaching responsibilities include a large 2-semester course in Human A & P as well as participation in courses in Invertebrate Biology and/or a course in area of expertise. The successful applicant is expected to maintain an active research program and to contribute to the graduate program. Applicants must have a Ph.D. and teaching experience in Human A & P. Applicants should know that there is a strong internal candidate. Applicants should send a statement of teaching and research interests, curriculum vitae, and name and address of three referees by May 2, 1994, to: **Chair, Search Committee, Zoology Department, Spaulding Life Science Building, University of New Hampshire, Durham, NH 03824-3544.** *Women and minorities are encouraged to apply. UNH is an Affirmative Action/Equal Employment Opportunity Employer.*

ASSISTANT ADJUNCT PROFESSOR and POSTDOCTORAL POSITIONS available to study movement disorders and myoclonus. Techniques include microdialysis, autoradiography, and molecular biology. Send curriculum vitae and names of three references to: **Daniel Truong, Neurology 154 Med Surge I, UCI, Irvine, CA 92717.** Refer to **Position #94-2.** *UCI, rooted in education, enriched by diversity.*

Director, Department of Chemistry

 Astra is a pharmaceutical company in a phase of rapid growth. The Company's operations, which are highly international, consist in research and production and marketing of pharmaceuticals through subsidiaries in about 25 countries. The products are marketed in an additionally large number of countries through agents and licenses. The number of employees is somewhat more than 10,000, of whom 4,200 are in Sweden.

ASTRA PAIN

RESEARCH UNIT

Astra Pain Research Unit is situated in Montreal, Canada and is a research satellite to Astra Pain Control in Sweden. The research is aimed in developing new pharmaceuticals for treatment of pain and inflammation.

Astra Pain Research Unit (APRU) in Montreal

We seek to identify a highly distinguished scientist to direct and coordinate all chemistry efforts at our new drug discovery institute (APRU) in Montreal. It is likely that the successful candidate has previously directed large and diverse medicinal chemistry programs within a major pharmaceutical company. University Professors with thorough knowledge of drug discovery processes within the pharmaceutical industry are also encouraged to apply. A documented track record in medicinal chemistry is combined with an interest/experience in Computational Chemistry and Combinatorial Library Approaches.

APRU will be devoted to the discovery of compounds useful in treatment of pain and inflammation. One area of research will concern opioid peptides and alkaloids.

The Director of Chemistry will be expected to build our Department of Chemistry and to recruit other leading scientists. Excellent leadership and organizational skills are thus required.

We offer a competitive salary, generous benefits package and an environment that is conducive to professional success. For prompt confidential consideration, applications containing a curriculum vitae and a statement of past and present research interests should be sent to **Human Resources Department, Astra Pharma Inc., 1004 Middlegate Road, Mississauga, Ontario L4Y 1M4.**

Confidential inquiries may be directed to Dr. Claes Wahlestedt, Director, Astra Pain Research Unit in Montreal. Fax: (514) 973-3031.

No telephone enquiries please.

Astra is committed to Employment Equity and encourages applications from members of the designated groups.



National Institute of Allergy and Infectious Diseases
National Institutes of Health

PROTEIN X-RAY CRYSTALLOGRAPHER

A protein crystallography laboratory is being established with intramural funding to conduct an original research program and to interact with other scientists within the NIH intramural program. Ph.D. or M.D. applicants should have a record of achievement in solving protein structures by X-ray crystallography. Salary commensurate with credentials and research experience.

Qualified and interested candidates should send curriculum vitae and names and addresses of three references to:

John E. Coligan, Ph.D.
Chief, Laboratory of
Molecular Structure
NIAID, NIH
Bldg. 4, Room 413
9000 Rockville Pike
Bethesda, MD 20892

(301) 496-3213 phone
(301) 402-0284 fax

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Temple University School of Medicine

Faculty Positions, The Department of Microbiology and Immunology

The Department of Microbiology and Immunology invites applications for several tenure-track Faculty positions at the Assistant Professor, Associate Professor or Professor level, as part of the second phase of a major expansion. We are particularly interested in: (1) molecular immunologists or cellular immunologists employing contemporary molecular biology approaches; (2) investigators in molecular pathogenesis. The successful candidates will be expected to have significant research accomplishments, ability to establish and maintain a vigorous research program that will attract peer-reviewed funding and a commitment to excellence in educating graduate and medical students. Applicants at the Associate Professor or Professor level should demonstrate a consistent record of independent peer-reviewed funding and should have active competitive grants. Start up funds and newly renovated space are available for the appointed investigators.

The Department of Microbiology and Immunology is supported by extensive peer-reviewed funding and has a very strong graduate program providing students with advanced training in molecular microbiology and immunology. Interactions are encouraged with other basic and clinical departments and the Fels Institute for Cancer Research and the Thrombosis Center of Temple University School of Medicine.

Interested individuals should send a curriculum vitae, bibliography, a summary of research achievements and research plans and the names and addresses of four references to: **Chris D. Platsoucas, Ph.D., Professor and Chairperson, Department of Microbiology and Immunology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.**

Temple University is committed to Affirmative Action/Equal Employment Opportunity and strongly encourages applications from women and minorities.



Temple University
School of Medicine

Department of Microbiology and Immunology

POSTDOCTORAL, PROJECT INVESTIGATORS, OR RESEARCH ASSISTANT PROFESSOR positions are available to work on: (1) The molecular cloning and identification of tumor-specific antigens in human malignancies; (2) development and characterization of human T-cell clones; (3) molecular characterization of T-cell antigen receptors involved in anti-tumor immunity or autoimmune diseases. Experience in molecular cloning and expression systems, development and characterization of human T-cell clones is needed. Positions supported by NIH research grants. Interested candidates should send a curriculum vitae, bibliography, and names and addresses of three references to: **Chris D. Platsoucas, Ph.D., Professor and Chairman, Department of Microbiology and Immunology, Temple University School of Medicine, 3400 N. Broad Street, Philadelphia, PA 19140.**

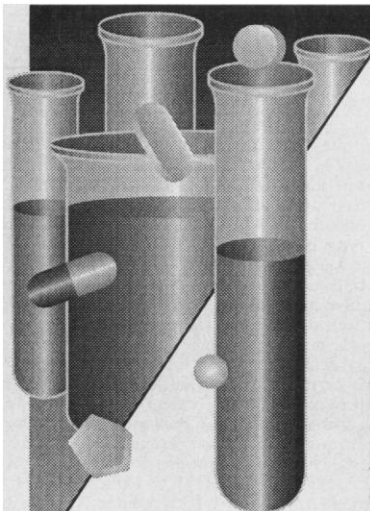
Temple University is committed to Affirmative Action/Equal Employment Opportunity and strongly encourages applications from women and minorities.

BIOMEDICAL SCIENCE Media Relations

Internationally renowned scientific research organization has an immediate opportunity for a Media Relations professional to disseminate the research results of approximately 300 biomedical scientists located at universities and research institutions throughout the U.S. and abroad.

The individual we seek must be knowledgeable in molecular biology, have at least 5 years media relations experience in a university or research setting, and should be familiar with leading science writers and media. Bachelor's degree and excellent science writing skills are required; computer proficiency is preferred.

We are a results-oriented, intellectually demanding organization that offers an excellent salary and benefits package including paid relocation to the Washington, DC area. Please send resume to: Media Relations/MM, 8300 Greensboro Drive, Suite 1210, McLean, VA 22102. An equal opportunity employer.



POSTDOCTORAL FELLOWS

At the Glaxo Inc. Research Institute, located in Research Triangle Park, N.C., the focus is drug discovery and development through novel research. As part of our commitment to research, our **Postdoctoral Fellowship Program** supports scientific endeavors and scholarships through the development of researchers at the early stage of their careers. We are currently seeking to fill **four openings** for Postdoctoral Fellows in the following areas:

BIOANALYTICAL STRUCTURAL CHEMISTRY

This Ph.D. level position is available within a multidisciplinary team to study the role of SH2-protein interactions. This position requires broad knowledge of protein-protein interactions, protein structure-function relationships, protein chemistry and interest/experience in the regulation and characterization of effector proteins involved in signal transduction. Experience with some of the following techniques is preferred: mass spectrometry, immunoaffinity and micro-column chromatography, CD, fluorescence, microcalorimetry, and/or BIAcore. Individual must have the ability to interact effectively with other scientists in areas such as: molecular biology/expression, peptide chemistry, amino acid sequencing and analysis, molecular modeling, and mass spectrometry. **Please refer to Job # ASC911712 on all resumes.**

BIOCHEMISTRY (Signal Transduction Pathways)

Individual will join a multidisciplinary team studying the role of SH2, SH3 and catalytic domains of src-tyrosine kinase in oncogenesis. Protein chemistry and molecular biological techniques will be used to define the nature and interactions of the catalytic and ligand binding properties of src-tyrosine kinase. Experience in protein chemistry, molecular biology and cell culture is required. Experience in signal transduction is preferred. **Please refer to Job # ASC911714 on all resumes.**

CELL BIOLOGY

Individual will determine the mechanisms involved in the transformation of cells by the p53 associated protein, mdm-2. The individual will collaborate with both Glaxo and academic scientists working on the biochemistry of cell cycle control. Experience in molecular biology coupled with a strong interest in cell cycle regulation are required. **Please refer to Job # ASC911716 on all resumes.**

CELL DIFFERENTIATION

Individual will study cellular and molecular aspects of cell lineage commitment and differentiation, using murine embryonic stem cells as a model system. Candidates must have expertise in long-term tissue culture and molecular techniques. Experience with ES cells is desirable. **Please refer to Job # ASC911718 on all resumes.**

These Fellowship openings offer you the opportunity to strengthen your scientific reputation and career advancement by publication and presentation of outstanding research conducted in an excellent environment. In addition, Glaxo is proud to offer a highly competitive compensation package. Applicants should send their curriculum vitae, a statement of research interest, a list of professional references, and the Job # of interest, to: **Human Resources Department, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709.** (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

Glaxo Inc.
The Time For Achievement Is Now

POSITIONS OPEN

ASSISTANT PROFESSOR

The Department of Neurology at the University of Minnesota Medical School is seeking a full-time tenure-track Assistant Professor to develop a program in Neuro-genetics, with particular attention to the molecular neuro-genetics of inherited and sporadic ataxias. This individual will be expected to both carry on his or her independent research studies directed at the identification and pathogenetic understanding of the ataxias at the molecular level as well as to direct a broader program in the molecular genetics of neurodegenerative diseases. He or she will also participate in the teaching of undergraduate and graduate students. Candidates must have a Ph.D. in Genetics, graduate and postdoctoral training in Neuro-genetics and documentation of a record of productive research in genetics and molecular genetics with a demonstrated expertise in the ataxias. Start date: July 1, 1994. Last date for receipt of applications: April 30, 1994. Applicants should submit curriculum vitae to: **Richard W. Price, M.D., Professor and Head, Department of Neurology, Box 295 UMHC, 420 Delaware Street S.E., Minneapolis, MN 55455.** The University of Minnesota is an Equal Opportunity Educator and Employer.

Salisbury State University invites applications for 3 **BIOLOGY FACULTY POSITIONS** beginning August 1994. A tenure-track position for a **PLANT ANATOMIST/MORPHOLOGIST** at the **ASSISTANT PROFESSOR** rank is available, as are two 3-year contractual **VISITING ASSISTANT PROFESSORSHIPS** to primarily teach Anatomy and Physiology and/or Microbiology. Teaching, research and advising undergraduate research required. Forward transcripts, curriculum vitae and 3 letters of recommendation by 31 April 1994 to: **Dr. Mark Holland (Assistant Professor), or Dr. Harry Womack (Visiting Assistant Professors), Biology Department, Salisbury State University, Salisbury, MD 21801.** Salisbury State University is an Affirmative Action/Equal Opportunity Employer. Qualified women, minorities, and disabled persons are encouraged to apply.

TENURE-TRACK POSITION ASSISTANT PROFESSOR OF PHYSIOLOGY

The University of Tennessee, Memphis, Department of Physiology and Biophysics has a tenure-track position at the rank of Assistant Professor. Outstanding physiologist with a Ph.D. or M.D. degree, a good track record in publications and 2 years of postdoctoral research experience with a background in cellular and/or molecular biology are encouraged to apply. New, modern facilities, generous start-up funds, a light teaching load, and a top-ranked department make this an excellent opportunity to develop an independent research program.

Applicants send curriculum vitae, brief statement of research interests, copies of three representative publications and the names of three references to: **Dr. Leonard R. Johnson, The Thomas A. Gerwin Professor and Chairman, Department of Physiology and Biophysics, 894 Union Avenue, Memphis, TN 38163.** Deadline for submission of application is July 1, 1994.

UT Memphis is an EQUAL OPPORTUNITY/TITLE VII/SECTION 504/ADA/AFFIRMATIVE ACTION EMPLOYER. MINORITIES AND WOMEN ARE ENCOURAGED TO APPLY.

ANATOMIST

ASSISTANT OR ASSOCIATE PROFESSOR position in the Department of Anatomy at the University of Health Sciences College of Osteopathic Medicine. Should have Ph.D. in Anatomy; experience teaching human gross anatomy and histology. Other duties include scholarly work; service to the University; and advising students. Must be a positive team player and demonstrate a strong commitment to teaching.

Salary dependent upon qualifications; excellent benefits. Send curriculum vitae, graduate and undergraduate transcripts, statement of teaching philosophy and scholarly interests, and names and addresses of three references to: **Robert E. Stephens, Ph.D., Chairman of Anatomy, UHS-COM, 2105 Independence Boulevard, Kansas City, MO 64124-2395.** Review of applicants will begin April 1, 1994. Position available July 1, 1994. Pre-employment drug screen required. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR/ ASSOCIATE PROFESSOR

The Hormel Institute, a lipid research center of the University of Minnesota, invites applications for a faculty appointment at the level of Assistant or Associate Professor. Qualifications: Candidates must demonstrate the ability to establish an independent, extramurally fundable research program of biomedical or technological relevance that will complement ongoing programs. Preference will be given to applicants with a strong background in **molecular/cell biology**, and a successful research record in areas related to cell signaling and the regulation of membrane-dependent cellular functions. A Ph.D. (or equivalent) degree and 2 to 3 years of postdoctoral experience are required. Individuals with additional research experience and with excellent organizational, supervisory, and communication skills are desired. A complete application consists of curriculum vitae, a research plan, and the names of three references received no later than June 1, 1994, by: **Dr. H. H. O. Schmid, Director, The Hormel Institute, 801 16th Avenue NE, Austin, MN 55912.** The University of Minnesota is an Equal Opportunity Educator and Employer.

FACULTY POSITION. The Department of Biochemistry and Molecular Biology of the University of Nebraska Medical Center (UNMC) invites applications for a tenure-leading appointment in protein biochemistry at the level of **ASSISTANT or ASSOCIATE PROFESSOR.** Applicants should have research expertise in protein purification, characterization and modification. We are particularly interested in candidates who will advance basic understanding of the role of transcription factors or protein receptors in gene regulation and/or signal transduction. Applicants must have the Ph.D. degree and relevant postdoctoral experience. The successful applicant will be expected to have or develop a vigorous, funded, independent research program, to oversee a well-equipped and staffed core facility for protein sequencing and analysis, and to participate effectively in the teaching programs of the department. Applicants should submit curriculum vitae, selected reprints, a brief description of previous and anticipated research, and the names of three references to: **William G. Chaney, Ph.D., Chair, Biochemistry and Molecular Biology Search Committee, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-4525.** Application review will begin May 15, 1994, and continue until the position is filled. UNMC is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

The University of Alabama at Birmingham (UAB) is currently seeking applicants for the faculty position of **ASSISTANT PROFESSOR**, tenure-earning. This position would be responsible for overseeing the development, design, construction, and maintenance of 4.1T spectrometer and associated equipment. All interested applicants should send curriculum vitae and three letters of recommendation to: **Gerald M. Pohost, M.D., Director, Division of Cardiovascular Disease, University of Alabama at Birmingham, THT 311, UAB Station, Birmingham, AL 35294.**

UAB IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

SIENA COLLEGE ASSISTANT PROFESSOR OF BIOLOGY

Two temporary positions anticipated for 1994-95: **Position 1**—lecture and laboratory in Comparative Anatomy. **Position 2**—lecture-only course in introductory molecular Genetics. Both positions include teaching in our introductory majors' course. An extension of both positions for the 1995-96 academic year is possible. Applicants must have a Ph.D. in an appropriate area of Biology. Siena is an undergraduate liberal arts institution located in upstate New York's Capital District with a Biology Department of 16 faculty and approximately 400 undergraduate majors. Interested persons should send curriculum vitae, the names and addresses of at least three references, and a statement of teaching philosophy to: **Dr. Lawrence Woolbright, Head, Biology Department, Siena College, 515 Loudon Road, Loudonville, NY 12111.** Siena College is an Equal Opportunity Employer and encourages applications from all qualified candidates including women and minorities.

POSITIONS OPEN

Applicants are invited for a position in **Plant Ecology** with a strong emphasis in environmental science at the **ASSISTANT PROFESSOR** level beginning August 1994. Candidates must possess a Ph.D. and a strong commitment to teaching and research and are expected to develop an externally funded independent research program leading to timely publication and which actively involves students. The successful candidate will participate in a newly created Master's of Environmental Studies program offered jointly by the Medical University of South Carolina and the University (College) of Charleston, which will begin in 1994. The College of Charleston is a liberal arts institution whose primary aim is teaching excellence. Biology offers undergraduate instruction leading to the B.A. or B.S. degree, including an undergraduate marine biology emphasis, and an M.S. degree in Marine Biology. Biology operates the Grice Marine Biological Laboratory on Charleston Harbor. Applicants should submit curriculum vitae, statement of teaching and research interests, copies of relevant publications, and three letters of reference to: **Chair, Department of Biology, College of Charleston, Charleston, SC 29424-0001.** All application materials should be received by April 15, 1994. The College of Charleston is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF MICROBIOLOGY COLORADO STATE UNIVERSITY

Faculty Position, Molecular Biology of Bacterial Pathogenesis

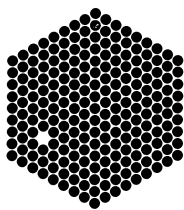
The Department of Microbiology at Colorado State University invites applications for a tenure-track **ASSISTANT or ASSOCIATE PROFESSOR** position to address the molecular biology of bacterial pathogenesis. Preference will be given to candidates employing molecular biology and biochemical approaches to investigation of fundamental processes in the interaction of bacterial pathogen and host. Candidates should possess the Ph.D., D.V.M./Ph.D., M.D./Ph.D. or equivalent degree, and relevant postdoctoral research experience. The successful applicant will be expected to sustain an innovative extramurally funded research program that complements the existing interdepartmental University Program of Research and Scholarly Excellence in Infectious Diseases and Immunology. Direction of graduate students and teaching at the undergraduate and graduate levels are crucial responsibilities of this position. Applicants should send curriculum vitae, a statement of research interests and goals, and a list of at least three references by May 31, 1994, to: **Dr. Patrick J. Brennan, Search Committee Chair, Department of Microbiology, Colorado State University, Fort Collins, CO 80523; Telephone: 303-491-6700.** Salary negotiable.

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

CHEMOSENSORY DATABASE MANAGER needed to (i) assume major responsibility for the management of clinical and research databases of an NIH-funded research center and (ii) organize and oversee key components of a patient chemosensory evaluation and treatment program. This individual will assist the Center's director in the areas of program development and in the administration of an internationally recognized chemosensory research program. A Ph.D. is desirable. Send curriculum vitae and three letters of recommendation to: **Richard L. Doty, Ph.D., Director, Smell and Taste Center, University of Pennsylvania Medical Center, 3400 Spruce Street, Philadelphia, PA 19104.** The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

EDITOR Laboratory Animal Science

The American Association for Laboratory Animal Science seeks a distinguished professional to serve as editor of the Association's journal, *Laboratory Animal Science*. Applicant must be currently active in the field. Additional qualifications include a significant record of published research in the field of laboratory animal science and comparative medicine, organizational and teamwork skills, tact and judgment. Editorial experience desirable but not necessary. Submit cover letter and curriculum vitae by June 1, 1994, to: **Chairman, LAS Editorial Board, AALAS, 70 Timber Creek Drive, Cordova, TN 38018.**



EMBL

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, Germany, invites applications for positions at

THE EUROPEAN BIOINFORMATICS INSTITUTE (EBI)

A new outstation of the European Molecular Biology Laboratory (EMBL), the European Bioinformatics Institute (EBI), is currently being established at the genome campus at Hinxton Hall near Cambridge (UK). The EBI will foster leading-edge research and development in biocomputing. Its international flavour, the close interaction of biologists and computer scientists, and its modern computing facilities will guarantee an exciting and stimulating working environment.

BIOLOGISTS/ANNOTATORS

The EBI, in collaboration with the GenBank group (U.S.A.) and the DNA Database of Japan, produces the world's largest nucleotide sequence databases and, in collaboration with the University of Geneva, the SWISS-PROT protein sequence database. We plan to recruit the following new staff:

- **SWISS-PROT DATABASE CO-ORDINATOR (Ref. no. 94/10)**
To supervise the production of the SWISS-PROT protein sequence data base at EMBL and to co-ordinate its future development in interaction with collaborators at the University of Geneva. Candidates should have a Ph.D. in molecular biology or protein biochemistry, communication skills and co-ordinating abilities. Computing and scientific database experience is essential.
- **NUCLEOTIDE SEQUENCE DATABASE ANNOTATORS (5) (Ref. no. 94/11)**
We seek biologists to join the team of annotators to prepare data for inclusion in the EMBL nucleotide sequence database. The work involves extracting biological information relevant to a given sequence, either from a publication which reports it or from an electronic data submission provided by the researcher who did the sequencing work. This work is complemented by quality control and data editing activities. Candidates should have a broad knowledge of molecular biology.
- **PROTEIN SEQUENCE DATABASE ANNOTATORS (3) (Ref. no. 94/12)**
Experience with computers is highly desirable. Communication skills are essential in the context of interactions with data submitters and external expert groups world-wide.

BIOLOGISTS/USER SUPPORT

We seek biologists to provide external user support and to establish collaborative links with experts world-wide.

- **USER SUPPORT OFFICER (Ref. no. 94/13)**
The job includes the organisation of a help desk and documentation in support of EBI products and services for external users and customers. It also includes the planning and execution of training courses. Applicants should be able to communicate efficiently in verbal and printed form.
- **BIOLOGICAL USER LIAISON OFFICER (Ref. no. 94/14)**
To interact closely with external users of EBI products on scientific issues. This job is strongly research-oriented and includes collaborations with external scientists to solve database or sequence analysis problems and the co-ordination of interactions with European genome projects. It also includes the planning and execution of training courses. The successful candidate will have a significant biocomputing research background at the Ph.D. level and strong communication skills.

PROGRAMMERS/BIOLOGISTS

The activities of the EBI Service Branch will concentrate on biological database production and related research and development. We seek programmers for the development and maintenance of software related to the databases maintained at EMBL. The jobs are suitable for computer scientists or biologists with a strong computing background. Involvement in various collaborative projects at the EBI is expected. For all candidates communication skills are essential to guarantee successful interaction with EBI researchers and database users.

- **DATABASE PROGRAMMERS (3) (REF. NO. 94/15)**
To build software for the EMBL nucleotide sequence database and other databases at the EBI. Applicants must be fluent in Pascal and/or C programming on VMS or UNIX platforms. Experience with relational database management systems such as ORACLE or SYBASE is desirable.

- **DOS/UNIX DATABASE PROGRAMMER (Ref. no. 94/16)**
To work on the maintenance and development of the SWISS-PROT protein sequence database. The successful candidate will have significant C programming skills on MS-DOS and UNIX computers. Experience with communication between these systems and personal computers will be helpful. A strong biological background is required.
- **DATABASE ADMINISTRATOR (Ref. no. 94/17)**
To maintain and develop the systems for overall management of the EBI databases in a production environment. Applicants should be proficient in modern database technology and be practically oriented. Experience with the ORACLE database management system and associated development tools is essential.

BIOLOGISTS/COMPUTER SCIENTISTS

The activities of the EBI Service Branch will concentrate on biological production and related research and development. We seek biologists/computer scientists to form the core of an expanding application-oriented R&D team at the EBI. Projects will be highly interactive, so all applicants should have the ability to work in teams and to communicate efficiently. A broad interest in biological information systems and databases is expected from all candidates.

- **R&D OFFICER - EXTERNAL INFORMATION SERVICES (Ref. no. 94/18)**
To design and develop information products for molecular biologists. The job includes the production of new databases of biological information resources, the establishment and maintenance of network information services and the creation of CD-ROM information products. The successful candidate will have a broad knowledge of existing biological information resources and of current developments in molecular biology, as well as an understanding of biologists' information demands. Computing experience and programming skills are highly desirable. Applicants should be familiar with information discovery tools such as Gopher or WWW, and experience with database management systems will be helpful.
- **R&D OFFICER - INFORMATION RETRIEVAL SYSTEMS (Ref. no. 94/19)**
To work on the design and development of new information retrieval systems, utilising network communication methods as well as CD-ROM technology. Substantial C programming skills are essential. The successful candidate will be familiar with biological databases and information retrieval systems and should have a thorough knowledge of computer networking. Experience with database management systems will be helpful.
- **R&D OFFICER - DATABASE DEVELOPMENT (Ref. no. 94/20)**
To work on the design of new generations of biological databases and the integration of heterogeneous database systems. Candidates should have a broad understanding of database theory and database design. Practical experience with relational databases is necessary, and an interest in object-oriented technology is desirable. Applicants must have substantial programming and implementation skills.

COMPUTER SYSTEM MANAGERS

The activities of the EBI Service Branch will concentrate on biological database production and related research and development. We seek computer scientists or biologists with a strong computing background to form an efficient group of closely interacting system managers responsible for a heterogeneous computing environment. Direct involvement in various research projects at the EBI is expected. For all positions, the ability to communicate and interact efficiently with others is essential.

- **SYSTEM MANAGERS (2) (Ref. no. 94/21)**
To join a team responsible for the management of a mixed environment of Open VMS, McIntosh and MS-DOS computer systems. The successful candidate will have substantial professional experience in managing at least two of these platforms. Additional knowledge of UNIX system management is required for one of these posts. Hardware experience would be useful.
- **SOFTWARE SUPPORT OFFICER (Ref. no. 94/22)**
To install and maintain application software packages and databases for in-house use, to provide user support and to organise documentation and training. This job is suitable for biologists with a strong computing background. Educational skills and the ability to communicate effectively with end users are essential for the successful candidate.

Personal initiative and self-motivation for all the positions

As an inclusive international organization, EMBL invites applications from all qualified candidates. Women and nationals of Southern European or other under-represented Member States are encouraged to apply.

Closing date for application: 18 April 1994

Please write briefly for an application form to:

EBM: Personnel Section, Postfach 10.2209, 69012 Heidelberg, Germany.
Fax: +49 6221 387 555

Applications may also be submitted electronically to ebi-jobs@embl-heidelberg.de.

Please do not forget to quote the appropriate reference number.

POSITIONS OPEN

TENURE-TRACK POSITION IN CELLULAR-MOLECULAR BIOLOGY Texas A&M University Health Science Center

The Department of Medicine invites applications to fill a tenure-track position in cellular-molecular biology at the ASSISTANT PROFESSOR level. An experienced scientist with a Ph.D. or M.D. degree and postdoctoral research training is sought to further develop an existing research program in hepatobiliary diseases. Demonstrated research experience in secretion and proliferative responses in hepatocytes and/or bile duct epithelium is highly desirable. The candidate must have demonstrated the ability to work with graduate and postdoctoral students. It is anticipated that the successful candidate will interact with others at Texas A&M University Health Science Center in molecular/cell biology as well as those engaged in hepatobiliary research. Applicants should send curriculum vitae and outline of research interests and names of three individuals who have agreed to provide letters of recommendation to: **Gene D. LeSage, M.D., Chief, Section of Liver Disease, Scott and White Clinic/Texas A&M University Health Science Center, 2401 South 31st Street, Temple, TX 76708. Equal Opportunity Employer/Affirmative Action Employer.**

BEHAVIORAL NEUROSCIENCE

The Department of Psychology at the University at Albany, State University of New York, is seeking to fill a position in behavioral neuroscience/biopsychology at the VISITING ASSISTANT PROFESSOR level for September 1994 or January 1995. Specific area of research interest is open, but Ph.D. degree (by September 1994) is required; strong candidates might show interest in collaborative work on a research program on genetics and neurobehavioral effects of alcohol. Responsibilities would include both undergraduate and graduate teaching, including psychopharmacology. This is a temporary replacement position (1 to 3 years), with a possibility of renewal through five years. Applicants should submit curriculum vitae, sample reprints/preprints, a statement of research interests, and three letters of recommendation to: **Dr. N. B. McCutcheon, Chair, Behavioral Neuroscience Search Committee, Department of Psychology, The University at Albany, SUNY, Albany, NY 12222 by May 1, 1994. The University at Albany is an Equal Opportunity/Affirmative Action Employer. Applications from women, minority persons, handicapped persons, and/or special disabled or Vietnam-era veterans are especially welcome.**

DEPARTMENT HEAD

Department of Biochemistry and Genetics

The Connecticut Agricultural Experiment Station invites applications for the position of Head of the Department of Biochemistry and Genetics. The candidate will be expected to bring to bear unusual distinction and insight in conducting and leading research on the biochemistry, genetics, or biotechnology of agricultural crops. The Department was formed in 1888 and has had three leaders in 106 years: T. B. Osborne, H. B. Vickery, and I. Zelitch. The individual will be expected to have demonstrated outstanding achievement as demonstrated by publication of a substantial number of research papers that show a high level of skill, creativity, and originality. Candidates should possess the Ph.D. degree and be able to successfully compete for extramural research support. Salary is competitive.

Please submit curriculum vitae, a brief statement of research interest, copies of representative publications, and the names and addresses of three references to: **Dr. John F. Anderson, Director, The Connecticut Agricultural Experiment Station, P.O. Box 1106, New Haven, CT 06504. Deadline for application is May 15, 1994, or until a suitable candidate is found. The Connecticut Agricultural Experiment Station is an Equal Opportunity/Affirmative Action Employer.**

EDITOR, Journal of Clinical Pharmacology, Official Publication of the American College of Clinical Pharmacology. Eminence in the field of pharmacology, either basic, clinical, or both, is required. Experience as an editor, or as a member of editorial boards of scientific journals preferred, but not necessary. Interested and qualified candidates should submit current curriculum vitae by no later than July 31, 1994, to: American College of Clinical Pharmacology, Executive Office, 300 Oriskany Boulevard, Yorkville, NY 13495-1332.

POSITIONS OPEN

BIOCHEMISTRY FACULTY POSITION. The Department of Chemistry at Portland State University (PSU) intends to fill a tenure-track position in Biochemistry for the fall of 1994. The position is at the ASSISTANT/ASSOCIATE PROFESSOR level. The position will involve teaching at the undergraduate and graduate levels, and will require that the person selected carry out a vigorous research program. The Department of Chemistry is a major part of a Ph.D. program in Environmental Sciences and Resources, and preference will be given to candidates whose research interests will be likely to strengthen this program. Candidates are asked to send curriculum vitae (with a list of publications and a list of courses taught), and a brief description of research plans. Please arrange to have three persons send references. Screening of applicants will continue until the position is filled; however all materials should be received by April 15, 1994, for full consideration. *PSU is an Equal Opportunity/Affirmative Action Employer and is committed to diversifying its work force. Minorities, women and members of other protected groups are encouraged to apply.* Mail applications to: **Dr. David H. Peyton, Department of Chemistry, PSU, P.O. Box 751, Portland, OR 97207-0751.**

CHAIR, DEPARTMENT OF BIOCHEMISTRY:

Applications and nominations are invited for the position of Chair of the Department of Biochemistry in the James H. Quillen College of Medicine at East Tennessee State University. Candidates must have a Ph.D. or M.D. degree, or both, an active research program and a distinguished record of research accomplishments including peer-reviewed funding, a commitment to teaching medical students and graduate students, and a desire to build and lead a department of prominence. The Department provides a strong commitment to graduate and medical education in an expanding research environment with anticipated construction of an additional basic science building. Applicants should provide curriculum vitae and names, addresses, and telephone numbers of four references. Screening of applications will begin April 1, 1994, and continue until the position is filled. Applications and nominations should be sent to: **Dr. Robert Wondergem, Search Committee Chair, Department of Physiology, P.O. Box 70576, East Tennessee State University, Johnson City, TN 37614-0576. Applications from women and minorities are encouraged. East Tennessee State University is an Equal Opportunity Employer.**

CHAIRMAN

Department of Neurosurgery School of Medicine

The University of Mississippi Medical Center

The University of Mississippi Medical Center invites applications and nominations for the position of Chairman of the Department of Neurosurgery, a full department with a history of academic excellence and particular emphasis on neurophysiologic and neurovascular research as well as strong basic neuroscience ties with the Department of Anatomy. The residency program is integrated with the University of Mississippi Medical Center's teaching hospitals—the University Hospital and Children's Hospital, which have a total of 593 beds—and the 376-bed Department of Veterans Affairs Medical Center in Jackson, creating a very busy service with a diverse and challenging patient population.

Candidates should be eligible for licensure in Mississippi and diplomates of the American Board of Neurosurgery, have contributed significantly to the field clinically and/or scientifically, and be able to provide dynamic leadership in administering a comprehensive program of resident education, patient care, and research.

There is extremely pleasant and very affordable living in Jackson, a city noted for education and health care, which is an urbane state capital metropolitan area of over 400,000 with outstanding schools, culture, and recreation/outdoor activities.

Prior to July 15, 1994, nominations should be forwarded to, or interested individuals should send a self-descriptive cover letter, curriculum vitae, and names of three references to:

**John H. Eichhorn, M.D.
Professor and Chairman,
Department of Anesthesiology
University of Mississippi Medical Center
2500 North State Street
Jackson, MS 39216-4505**

The University of Mississippi Medical Center is an Equal Opportunity Employer, M/F/D/V.

POSITIONS OPEN

The Frankfurt International School is seeking an UPPER SCHOOL BIOLOGY AND CHEMISTRY TEACHER starting 15 August 1994. The assignment will include teaching International Baccalaureate biology courses and an integrated science course. The school has excellent laboratory facilities and a strong college preparatory academic program. Please send cover letter and curriculum vitae to: **Dr. David Hawley, High School Principal, Frankfurt International School, An der Waldlust 15, 61440 Oberursel, Germany. FAX: (49) 6171 202384.**

ASSOCIATE CHIEF OF STAFF, RESEARCH—

The Denver VAMC is seeking candidates for this important research leadership position. The medical center has a large, active, multidisciplinary research effort involving basic, clinical and HSRD research. Applicants should be U.S. citizens with administrative and research credentials and should qualify for a senior level faculty appointment at the University of Colorado Health-Sciences Center. Applications will be accepted until 1 September 1994 or until the position is filled. Send curriculum vitae plus three references to: **Robert J. Anderson, M.D., Chair of Search Committee, Medical Service (111), Denver VA Medical Center, 1055 Clermont Street, Denver, CO 80220. The VAMC is an Equal Employment Opportunity/Affirmative Action Employer and minority and protected groups are encouraged to apply.**

PRESIDENT AND CHIEF EXECUTIVE OFFICER NEW ENGLAND AQUARIUM

The New England Aquarium is conducting a nationwide search for a president and chief executive officer. The Aquarium, which opened 25 years ago on Central Wharf in Downtown Boston, is visited annually by 1.3 million people. Its tanks and gallery exhibits include more than 700 species of sea life. The Aquarium is committed to increasing public and scientific understanding of aquatic life and environments and is a center for marine research. Candidates should have a record of leadership and accomplishment in a significant not-for-profit, academic, governmental or commercial field and a deep personal commitment to the preservation of marine life and environments. The search committee invites applications and nominations for the position, which should be sent to:

**Malcolm MacKay
Managing Director
Russell Reynold Associates, Inc.
200 Park Avenue, 23rd Floor
New York, NY 10166**

The Aquarium is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

The Research Institute of the Palo Alto Medical Foundation and the Department of Health Research and Policy, Stanford University School of Medicine, are jointly seeking an individual interested in clinical epidemiology and outcomes research. The individual will be a FACULTY MEMBER of the Department of Health Research and Policy at Stanford University, and will serve as HEAD of the Department of Health Services Research at the Palo Alto Medical Foundation. Office and research space, some research support and salary will be supplied by the Palo Alto Medical Foundation. The Department at the Foundation will have responsibility for supervising outcomes research at the Palo Alto Medical Foundation and throughout the Sutter Health System. The individual would be expected to conduct research in the areas of epidemiology, clinical outcomes and/or health policy and to attract significant extramural support for research. In addition, the department will have teaching and student supervisory responsibility at Stanford University. It is anticipated that the individual will be appointed at the level of Associate Professor (Research), but more senior or junior candidates will be considered, as appropriate.

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

Correspondence should be addressed to: **Dr. Allen Cooper, Palo Alto Medical Foundation, 860 Bryant Street, Palo Alto, CA 94301, or to: Dr. Mark Hlatky, Stanford University Medical Center, Department of Health Research and Policy, HRP Redwood Building, Stanford, CA 94305-5092. A telephone call could be placed through the HRP Department secretary at (415) 723-5081.**

THE SECOND GRANT OFFERING BY MIZUTANI FOUNDATION FOR GLYCOSCIENCE

Mizutani Foundation for Glycoscience announces the availability of research grants for basic research in glycoscience. The suggested projects for this year include general studies in glycoconjugates: their organic chemistry, biochemistry, biophysics, molecular biology, cellular biology, and medical application.

Mizutani Foundation for Glycoscience is a non-profit, private organization devoted to the advancement of glycoscience. The foundation was established on October 1, 1992 with funds donated by Mr. Masakane Mizutani, Chairman of Seikagaku Corporation, Tokyo, Japan.

Qualification: An applicant must (a) have a doctor's degree equivalent to the Ph.D. or M.D. degrees in the USA in a field relevant to the proposed project, (b) have a documented capability of performing independent studies, and (c) be a member of a research institute where he or she can carry out the proposed project.

Grant: As much as 10,000,000 Japanese Yen (approximately 95,000 US Dollars at the current exchange rate), including overheads, per annum may be requested. As a rule, the grant will be approved for one (1) year only. However, certain exceptional proposals may be considered for two (2) years. The total budget allocated for this year's new research proposals is approximately 100,000,000 Yen.

The approved grant will be issued to the research institute to which the principal investigator is affiliated. The grant may be used for various items necessary for the proposed study, but not for the stipend of the principal or collaborative investigators.

Selection: The research proposals will be reviewed and evaluated by the committee of specialists appointed by the board of trustees of the foundation for the originality, scientific merit, and feasibility. The potentiality of the principal investigator and the research environment will also be considered.

Application form: The official application form (in English) may be obtained by sending a letter or fax (no telephone calls) to **the North American Office of Mizutani Foundation for Glycoscience: Department of Biochemistry, Meharry Medical College, 1005 David Todd Jr. Blvd., Nashville, TN 37208, USA (Fax: [1] 615-327-6442)**. The Japanese version can be obtained at the Tokyo office shown below.

Deadline: New applications for the grants awarded on April 1, 1995 will be accepted from July 1, 1994 through August 31, 1994 at the Tokyo Office of Mizutani Foundation for Glycoscience: Sen-i Kaikan, Suite 5F, 3-1-11 Nihonbashi-honcho, Chuo-ku, Tokyo 103, Japan (Fax: [81] 3-3246-1265).

POSITIONS OPEN

FACULTY POSITION IN BIOCHEMISTRY

The Division of Basic Medical Sciences at Mercer University School of Medicine invites application for a tenure-track position in Medical Biochemistry; rank and salary are commensurate with experience. The successful applicant will contribute to an interdisciplinary, problem-based medical education program in which small-group tutorials replace lectures. The applicant will be expected to develop a strong research program and contribute to the medical education program. Applicants should have a doctoral degree in biochemistry and postdoctoral training. Applicants should send curriculum vitae, names of three references and a statement of philosophy on the role of teaching and research in medical education. Apply to: **Dr. Robert J. Moon, Division of Basic Medical Sciences, School of Medicine, Mercer University, Macon, GA 31207.** *Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.*

FACULTY AND POSTDOCTORAL POSITIONS IN BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Dermatology, University of Michigan invites applications for faculty and postdoctoral positions to join a 50-member multidisciplinary research environment to study molecular mechanisms of skin repair. It is anticipated that demonstrated excellence in job performance will lead to long-term employment.

Applicants should possess a Ph.D. with expertise in Biochemistry and/or Molecular Biology. Faculty applicants should possess at least 5 years of postdoctoral experience, with demonstrated research excellence and strong written and oral communication skills. Selected applicants will be expected to conduct primary and collaborative research projects in a variety of areas, including:

- Retinoid and vitamin D-mediated gene regulation
- Functions of nuclear receptor superfamily members
- Molecular mechanisms of cell activation by ultraviolet light
- Immunological basis of skin irritation

Send curriculum vitae to: **John J. Voorhees, M.D., Professor and Chair, Department of Dermatology, University of Michigan, 1301 East Catherine, Kresge I, R6558, Ann Arbor, MI 48109-0528.**

The University of Michigan is a non-discriminatory, Affirmative Action Employer.

PLANT PHYSIOLOGY. The Ecology and Evolutionary Biology Department at Rice University seeks to fill a **HUXLEY RESEARCH INSTRUCTORSHIP**. This is a 2-year appointment for a recent Ph.D. for research and teaching. Preference will be given to candidates with research interests in mechanisms of gas transport in wetland plants, carbon cycling, plant-soil microbial interactions, or global change. The teaching commitment is a one-semester upper-level course in botany or in the specific area of the candidate's expertise. Applications, including curriculum vitae, a summary of research and teaching interests, and three letters of reference, are to be sent to: **Dr. R. L. Sass, Ecology and Evolutionary Biology Department, Rice University, P.O. Box 1892, Houston, TX 77251** by 30 April 1994. *Rice University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION CARDIOLOGY

Position available in the laboratory of **Dr. Janet Robishaw** at the Weis Center for Research. This position offers a unique opportunity to combine pharmacological and molecular biological approaches to investigate the function of different α_1 -adrenergic receptor and G protein subtypes in neonatal, rat cardiac myocytes. The successful applicant for this position will have a Ph.D. degree with experience in one or more of the following areas: cell culture, transfection/microinjection of cDNA's into cells, analysis of receptor-G protein coupling and phospholipase C.

The Weis Center for Research is a well-equipped facility located in a semi-rural area. Competitive salary and fringe benefits are available. Send curriculum vitae and names of three references to: **Geisinger Human Resources (JDR), 100 North Academy Avenue, Danville, PA 17822-1529.** *Equal Opportunity Employer, M/F/H/V.*

POSITIONS OPEN

BACTERIAL PATHOGENESIS. The Department of Microbiology, University of Virginia, is expanding its program in molecular pathogenesis to complement existing strengths in molecular genetics, immunology, and virology. A tenure-track **FACULTY POSITION** is available in the area of the molecular, genetic or cellular aspects of bacterial pathogenesis. Outstanding candidates with a Ph.D. or M.D. degree and postdoctoral experience are invited to apply for this position. The successful candidate is expected to establish a successful, independent and interactive research program, and will have some teaching responsibilities. Applicants should submit curriculum vitae, a concise statement of research interests, and selected reprints. These and three letters of reference should be sent to: **Chair, Microbiology Search Committee, Department of Microbiology, Box 441, School of Medicine, University of Virginia, Charlottesville, VA 22908.** Applications should be received by May 1, 1994. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority scientists.*

BIOLOGY

LECTURER in Biology, one-year, full-time sabbatical replacement. September 1994 to July 1995. Ph.D. preferred, will consider ABD. To teach multi-section courses in human anatomy. Additional teaching duties will depend on background. Areas of need include comparative anatomy, animal biology, general biology and human physiology. Application deadline: May 1, 1994. Send letter, curriculum vitae, three original letters of reference to: **Dr. F. Duane Blume, Chair, Department of Biology, California State University, Bakersfield, 9001 Stockdale Highway, Bakersfield, CA 93311-1099.** *CSUB is firmly committed to achieving the goals of Equal Opportunity and Affirmative Action. Women, ethnic minorities and individuals with disabilities are urged to apply.*

POSTDOCTORAL POSITION PHASE DISPLAY VECTORS

A postdoctoral position is available for a highly motivated individual to be a part of a group working on the display of peptides and protein domains on the surface of bacteriophage. Emphasis will be on the development of alternative display systems and their utilization as tools for understanding molecular recognition. Opportunities exist for collaboration with structural biologists interested in protein design and with cell biologists interested in novel delivery systems for gene therapy. The candidate should have demonstrated expertise in molecular biology and protein biochemistry. Send curriculum vitae, statement of research interests and names of three references, to: **Mary Jeannette, The DuPont Merck Pharmaceutical Company, Postdoctoral Program, Position #94-RHH, P.O. Box 80400, Wilmington, DE 19880-0400.**

POSTDOCTORAL POSITION GENETICS OF DRUG SUSCEPTIBILITY

Research in this exciting and important area will focus on the generation of infectious HIV variants with altered susceptibility to inhibitors of the virally encoded protease. Research will be conducted in the context of an active program focused on the discovery and development of novel anti-HIV therapeutics. The ideal candidate will have a Ph.D., M.D. or equivalent with a strong background in molecular virology and recombinant DNA technology. Send curriculum vitae, statement of research interests and names of three references, to: **Mary Jeannette, The DuPont Merck Pharmaceutical Company, Postdoctoral Program, Position #94-LTB, P.O. Box 80400, Wilmington, DE 19880-0400.**

POSTDOCTORAL POSITIONS available immediately to combine molecular, biochemical and cellular techniques to study the molecular events associated with the establishment and reactivation of herpes simplex virus latent infections in neurons. Candidates should have a Ph.D. degree and experience in one or more of the following areas: molecular genetics; gene regulation; virology; or a related area. Send curriculum vitae and letters of reference to: **Dr. R. L. Thompson, Department of Molecular Genetics, University of Cincinnati Medical School, 231 Bethesda Avenue, Cincinnati, OH 45267-0524.** FAX: (513) 558-8474.

POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS in Molecular and Cellular Neurobiology to investigate the action of proto-oncogenes encoding tyrosine kinases and phosphatases in neuronal development. One project focuses on signal transduction by cell adhesion molecules in growth cones. Another project is to clone and analyze the function of novel tyrosine and phosphatase genes in developing brain and retina. Send curriculum vitae and names of three references to: **Dr. Patricia F. Maness, Department of Biochemistry and Biophysics, University of North Carolina School of Medicine, CB# 7260, Chapel Hill, NC 27599-7260.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION in environmental sciences/biochemistry available immediately to work on an NIEHS-funded project directed at understanding the biochemical and toxicological implications of low level exposure to cyanide. A Ph.D. with background in these areas and expertise in oxidative stress or molecular biology techniques would be desirable. Send or FAX résumé and 2 letters of recommendation by April 10, 1994, to: **Dr. Chris A. Pritsos, Department of Nutrition (142), University of Nevada, Reno, NV 89557.** Telephone: 702-784-6443, FAX: 702-784-6449.

POSTDOCTORAL POSITIONS beginning summer/fall 1994 for the study of smooth muscle membrane ion channels. One position will involve combined electrophysiology and calcium fluorimetry; the other position the cloning, expression, and measurement of potassium channels. Background in electrophysiology and/or ion channel expression preferred. Send curriculum vitae and reference letters to: **Dr. Michael Kotlikoff, Department of Animal Biology, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104.** FAX: (215) 898-9923.

POSTDOCTORAL POSITIONS IN CENTRAL NERVOUS SYSTEM INJURY

Positions are available immediately to study the brain's response to traumatic brain injury. As part of a training program, opportunities exist to use a host of contemporary approaches to assess, *in vitro* and *in vivo*, the neuronal and vascular dysfunction triggered by injury. On the vascular front, current research interests lie in injury-induced changes in platelet endothelial interaction as well as the role of oxygen radicals in the impairment of vasomotor responses. In relation to the brain parenchyma, research interests focus on receptor-mediated pathobiology, intra-axonal cytoskeletal abnormalities, and the adaptive as well as maladaptive neuroplastic responses caused by traumatic deafferentation. Further, the damaging consequences of seizure-related activity are also considered. *These positions are available to U.S. citizens or permanent residents.* Stipends are consistent with those established by the NIH. *VCU is an Equal Employment Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.* For further information, contact: **Training Director, Commonwealth Center for the Study of Brain Injury, MCV/VCU Neuroscience Center, Medical College of Virginia, Virginia Commonwealth University, P.O. Box 980709, Richmond, VA 23298-0709.**

POSTDOCTORAL POSITIONS are available on an NIH Institutional Training Grant in the area of diabetes and hormone action. Topics include the regulation of insulin secretion in pancreatic beta cells and molecular signaling mechanisms resulting in secondary complications of diabetes. *Minorities are encouraged to apply.* Send curriculum vitae and names of three references to: **Dr. John R. Williamson, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104.** FAX: 215-898-9918. *Equal Opportunity Employer.*

POSTDOCTORAL FELLOW JOHNS HOPKINS UNIVERSITY

Position is available immediately to study the functional morphology and motor control of mastication and swallowing. Experience in motion analysis, electromyography, or biomechanics is desirable. This position is an NIH-funded program to develop research capabilities relevant to rehabilitation medicine. Fellowships are one to three years in duration. Send curriculum vitae and list of three referees (name, address, telephone) to: **Dr. Jeffrey B. Palmer, Johns Hopkins University, Good Samaritan Professional Building, 5601 Loch Raven Boulevard, Baltimore, MD 21239.** FAX: 410-532-4719.

Prize Competition

announced by the

Anna - Monika - Foundation

for the investigation of the biological substrate and functional disturbances of depression by approval of the Minister of the Interior of Nordrhein-Westfalen, Düsseldorf, 9 June, 1965

The Foundation announces the following prizes:

First Prize	US-Dollars	15.000,00-
Second Prize	US-Dollars	10.000,00-
Third Prize	US-Dollars	5.000,00-

preferably for studies of biochemical, histological, neurophysiological, neuropathological, psychopharmacological, psychiatric or psychosomatic nature. The studies should be carried out in close cooperation with a psychiatric clinic, a university or an equivalent scientific institution. As far as possible, the papers should give information about recent advances in knowledge that should be helpful in promoting treatment and would open new paths of progress. The papers may be written in German, French or English and should be submitted to the Chairman of the Committee, Prof. Dr. H. Helmchen, Berlin, Germany. Besides hitherto unpublished studies or papers published in the past two years in an international professional journal may also be submitted. Deadline for submission to the Committee is **30 September, 1994**. To help the Committee to come to a speedy decision, it is requested that a maximum of three publications in four copies as well as a summarizing report (approx. 600 words) of the studies submitted for the competition should be included. Prizes will be awarded until end of July, 1995. If, in the opinion of the Committee, no papers of sufficient merit are submitted, it reserves the right to present no award. Prizes and their amounts will be awarded according to the merits of the study in question. Subject to the Committee's decision, each prize can be divided between two papers.

The Committee Judges:

Chairman: Professor Dr. H. Helmchen
Psychiatrische Klinik und Poliklinik der Freien Universität Berlin, Eschenallee 3, 14050 Berlin, Germany

Honorary Chairman:
Professor Dr. med. P. Kielholz†, Seengen, Aargau, Switzerland

Members:

Professor Dr. J. Angst,	Psychiatrische Universitätsklinik, Zürich, Switzerland
Professor Dr. K. Beyreuther,	Zentrum für Molekulare Biologie der Universität Heidelberg, Germany
Professor Dr. M. Burger,	Friedrich-Miescher-Institut, Basel, Switzerland
Professor Dr. A.M. Freedman,	New York, USA
Professor Dr. K. Heinrich,	Düsseldorf, Germany
Professor Dr. F. Henn,	Department of Psychiatry, Health Sciences Center, State University of New York, USA
Professor Dr. A. Herz,	Max-Planck-Institut für Psychiatrie, München, Germany
Professor Dr. F. Holsboer,	Max-Planck-Institut für Psychiatrie, München, Germany
Professor Dr. H. Möhler,	Institut für Pharmakologie der ETH und Universität Zürich, Switzerland
Professor Dr. D. Palm,	Zentrum für Pharmakologie der Johann-Wolfgang-von-Goethe-Universität, Frankfurt/M., Germany
Professor Dr. P. Pichot,	Paris, France
Professor Dr. P. Propping,	Institut für Humangenetik der Universität Bonn, Germany
Professor Dr. K. Sandhoff,	Institut für Organische Chemie und Biochemie der Universität Bonn, Germany
Professor Dr. W. Stoffel,	Institut für Biochemie der Medizinischen Fakultät der Universität Köln, Germany

Managing Director:

Professor Dr. B. Hess,
Am Kaiserhain 19, 44139 Dortmund, Germany

BIOLOGY DEPARTMENT HIRAM COLLEGE (Search Deadline Extended)

Hiram College, an independent liberal arts institution located in the Western Reserve of Northern Ohio, invites nominations and applications of the following positions in the Biology Department:

BIOLOGIST/BIO-ETHICIST

This position is classified as a one-year, non-tenure track sabbatical replacement. This person will normally teach courses in Biology for the Non-Major, Introductory Botany (usually team-taught), and possibly Molecular/Cellular Biology. In addition to the 4 courses to be offered in the department, the individual will be expected to teach 2 courses dealing with some aspect of Bioethics. These two courses will be open to all students. The successful candidate will have a Ph.D. in the life sciences and a strong commitment to teaching at the undergraduate level.

ANIMAL PHYSIOLOGIST/ VERTEBRATE BIOLOGIST

This position is a non-tenure track position in Animal Physiology and Vertebrate Biology. The successful candidate should have a commitment to teaching at the undergraduate level and to involving undergraduates in research.

Interested parties should submit a curriculum vitae, statement of philosophy on teaching and research, and three letters of reference by April 8, 1994 to Dr. Matthew H. Hils, Biology Department, Hiram College, Hiram, OH 44234.

Hiram College is an Equal Opportunity Employer. Women, minorities and persons with disabilities are encouraged to apply.

HEALTH SCIENTIST ADMINISTRATOR (HSA)

GS-601-12/13/14
GM-94-0006

The National Institute of General Medical Sciences, National Institutes of Health, Bethesda, MD is seeking a HSA, responsible for stimulating, planning, advising, directing, and evaluating program activities for (1) a portfolio of research grants in the areas covering the structure and function of proteins, nucleic acids, and protein nucleic acid complexes and (2) a portfolio of institutional training grants in the area of molecular biophysics.

Applicants should be physical biochemists with an appreciation of the role of molecular structure in the biological processes. In addition, applicants must possess specific knowledge, skills and abilities (KSAs) in order to qualify for this position. There are a number of documents that must be submitted when applying for this position. Applicants who fail to submit all of the required documents will not be considered for the position; therefore, it is crucial that applicants call to obtain this information.

For information regarding the qualifications and application requirements, please call the NIGMS Personnel Office on (301) 594-7767. TDD: (301) 594-8884.

Announcement closes 4/11/94.

U.S. Citizenship is required.
NIH is an Equal Opportunity Employer

LeukoSite is a growing Biopharmaceutical Company focused on processes of cell adhesion, inflammation, and autoimmune disease. The Company is located in Boston and has strong ties with the Harvard Medical School through its founder, Dr. Timothy Springer, and other members of its Scientific Advisory Board. A talented team of scientists has been assembled to lead the Company's research and discovery program. We have two positions at the senior scientist level:

SENIOR SCIENTISTS MOLECULAR BIOLOGY OF CHEMOKINES, CHEMOKINE RECEPTORS

This scientist with Ph.D. postdoctoral experience will be part of a multidisciplinary team investigating the role of chemokines and their receptors in inflammation and autoimmunity. A broad background in molecular biological techniques plus an excellent publication record are required. Knowledge of G protein coupled receptors and chemokines would be valuable. Code 803B

PHAGE DISPLAY/ PROTEIN ENGINEERING

This person will initiate a program in developing and optimizing lead peptide antagonists of several classes of proteins critical in early phases of inflammatory processes. A demonstrated expertise in phage display or relevant technology is essential in either doctoral or postdoctoral studies. Code 802B

Please send your resume, cover letter referencing appropriate position code, and the names of three references to: Human Resources Administrator, LeukoSite Inc., 800 Huntington Ave., Boston, MA 02115, USA; FAX (617) 278-3399. An Equal Opportunity Employer.



University of Cambridge, England

Applications are invited for the following Professorships which will become vacant on 1 October 1995 on the retirement of the present holders:

Sir William Dunn Professorship of Biochemistry

(Professor Sir Hans Kornberg)

Professorship of Physiology

(Professor I.M.Glynn)

Professorship of Zoology

(Professor G.Horn)

The present pensionable stipend of a Professor is £37,042.

Further information from the Secretary General of the Faculties, General Board Office, The Old Schools, Cambridge CB2 1TT, UK. Applications (10 copies) with names of two referees by 18 April (Biochemistry), 9 May (Physiology, Zoology) 1994.

*The University follows an
equal opportunities policy.*

FACULTY OF SCIENCE AND ENGINEERING

SCHOOL OF BIOLOGICAL SCIENCES PROFESSOR OF BIOLOGY (MICROBIOLOGY)

A\$77 900 pa

Ref 94059X. The University is seeking an outstanding scholar, with a distinguished research record for the Chair of Biology (Microbiology) in the School of Biological Sciences.

The appointee should have the capacity to attract both post-graduate and undergraduate students; have a genuine interest in, and capacity for, teaching; preferably have expertise compatible with the general areas of environmental microbiology/bioremediation/microbiological biotechnology, and be able to provide a strong research focus for new and established academic staff in the School, by providing research and teaching leadership in a way which would maximise the performance of the School in general and the microbiology group in particular.

Further information is available from the Head of Faculty, Dr JW Rice, phone (61 8) 201 3693 or fax (61 8) 201 3399. Selection criteria, conditions of appointment, and a detailed statement on the structure and scope of the School of Biological Sciences are available from Ms J Fox, Human Resources Division, phone (61 8) 201 2507 or fax (61 8) 201 3131.

Applications, addressing the selection criteria, quoting the reference number, and giving full details of qualifications and experience and the names, addresses and facsimile numbers of three referees of whom confidential enquiries may be made, should be lodged, with the Manager, Human Resources, Flinders University, GPO Box 2100, Adelaide SA, Australia 5001 by 30 April 1994.

The University reserves the right not to make an appointment or to invite applications.

Equal Opportunity is University Policy.

**FLINDERS
UNIVERSITY**
ADELAIDE • AUSTRALIA



AK 43251

CHAIRPERSON AND NEUROLOGIST-IN-CHIEF

Department of Neurology
and Neuroscience

THE NEW YORK HOSPITAL- CORNELL MEDICAL CENTER

The New York Hospital-Cornell Medical Center seeks a distinguished Neurologist for appointment as Professor and Chairperson, Department of Neurology and Neuroscience, Cornell University Medical College, and Neurologist-in-Chief, The New York Hospital. Candidates must present evidence of experience and accomplishment in teaching, research, clinical services, and administration.

Send a current curriculum vitae, which includes a list of publications, to: Dr. Jack D. Barchas, Chair, Neurology Search Committee, The New York Hospital-Cornell Medical Center, 525 East 68th Street, Box 171, New York, New York 10021. EEO/AA/M/F/D/V.

The New York Hospital-
Cornell Medical Center



IMMUNOLOGIST



Astra is a pharmaceutical company in a phase of rapid growth. The company's operations, which are highly international, consist in research and production and marketing of pharmaceuticals through subsidiaries in about 30 countries. The products are marketed in a large number of countries through agents and licensees. The number of additional employees is more than 12.800, of whom 5.000 in Sweden. Sales in 1993 amounted to SEK 22.6 bn. and earnings totaled SEK 7.8 bn.

ASTRA ARCUS AB

Astra Arcus, a research company in the Astra Group, is engaged in R&D in primarily two areas—CNS and Infection. Astra Arcus employs some 400 people and the company is located in Södertälje, 35 kilometres south of Stockholm.

Astra Arcus is seeking an immunologist to join a small team of qualified researchers within our Preclinical Department of Immunology.

You will have a Ph.D. and post doctoral experience in the field of immunology, with emphasis on T lymphocytes. You will be a specialist within your particular area and have outstanding technical and theoretical capabilities. Both cellular immunology and molecular biology are equally familiar to you. Experience in the pharmaceutical industry is an advantage, but will not be mandatory.

If you would like to take part in the development of innovative immunological research, spanning from preclinical research to clinical applications, this is a unique opportunity. As a member of the Department of Immunology, you will join a team of six scientists and technicians dedicated to the development of new drugs and to basic research in the field of auto immunity, transplantation and cancer.

Further information can be obtained from Dr Carl Harald Janson, tel. +46 8 55 32 73 47, Dr Mats Ferm, tel +46 8 55 32 86 87 or Dr Alf Larsson, +46 8 55 32 71 30.

Applications should be sent to Astra Arcus AB, Personnel, S-151 85 Södertälje, Sweden.



STOCKHOLM UNIVERSITY

Applications are invited for a position as a Full Professor of Plant Ecology. The position will be located within the Department of Botany. Applicants should have an outstanding record of research and teaching achievements in the field of Plant Ecology. We welcome applications from women.

At present, the plant ecology group consists of four research scientists and ten Ph.D. students. The research is focused on plant life-history evolution, population dynamics and species coexistence in communities. We are looking for someone to lead this group with enthusiasm and commitment.

Informal inquiries may be made to the Dean of the Faculty of Biological Sciences, Professor Ragnar Elmgren, tel. +46-8-164016, fax +46-8-158417.

Applications should be sent before May 11 1994 to the Registrar, Staff Management Division, Stockholm University, S-106 91 Stockholm, Sweden quoting the reference number 611-0529/94. The following items, all in four copies, should be included:

1. Curriculum vitae
2. Bibliography
3. A brief description of the applicant's scientific achievements and teaching experience (5-10 pages)
4. Relevant scientific papers numbered according to the bibliography.

Items 1 and 2 should reach the university before the application period expires. Item 3 and one copy of item 4 should arrive no later than three weeks after expiration of the application period. The three additional copies of item 4 are to be sent later to the three Expert members of the search committee.

VIROLOGIST

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, is seeking an Associate Senior Investigator for our Molecular Virology and Host Defense Department. The department's 40 members work on projects which encompass basic and applied research on many aspects of molecular virology and immunology of infectious diseases including the discovery of novel antivirals, viral pathogenesis, immunomodulation, hematoregulatory cytokines and stromal cell biology.

The selected candidate will plan, supervise, and implement research aimed at the discovery and development of novel therapeutic antiviral agents for Hepatitis C and related positive-sense RNA viruses. Using knowledge of molecular tools and viral culture techniques, the selected candidate will identify viral molecular targets, explore mechanisms of anti-viral drug action and select lead compounds. Responsibilities also include providing leadership in multi-disciplined antiviral programs.

Qualifications include a Ph.D. (or equivalent) in virology, a minimum of three to five years postdoctoral experience in Hepatitis C or related viruses and an excellent record of scientific achievement as evident from publications, patents, abstracts and presentations. Outstanding applicants with broader backgrounds in other areas of virology will also be considered. Excellent communication skills and the ability to work effectively with individuals of varied backgrounds and disciplines are required, with industry and supervisory experience preferred.

Our state-of-the-art research facility is located in suburban Philadelphia. We offer a competitive compensation/benefits package as well as a stimulating work environment in which to grow and excel. For confidential consideration, please forward your resume with salary requirements to: SmithKline Beecham Pharmaceuticals, #H0058, PO Box 679, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.



SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.

POSITIONS OPEN

POSTDOCTORAL POSITIONS (2, one-year) are available 1 July 1994 to study fate of soil erosion and contaminants in Maumee Bay, Lake Erie. Experience with High Performance Liquid Chromatography, Gas Chromatography, and/or Atomic Absorption is desirable. Send by 22 April 1994 curriculum vitae, copies of publications, statement of research experience and interest, and three letters of recommendation to: **Peter Fraleigh, Biology Department, University of Toledo, Toledo, OH 43606-3390. Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available to study novel cytokine-mediated regulation of membrane receptor expression and functions in mast cells. Studies focus on elucidating regulatory mechanisms at the mRNA and protein levels. Candidates should have a strong background in molecular biology. Send curriculum vitae and three references to: **Howard R. Katz, Ph.D., Harvard Medical School/Brigham & Women's Hospital, 250 Longwood Avenue, Room 607, Boston, MA 02115. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIPS

Six faculty members of the **JOHNS HOPKINS UNIVERSITY** invite applications for postdoctoral fellowships in a program on "Lipid and protein traffic and dynamics in polarized epithelial cells." The faculty and their areas of interest are:

Michael Edidin: Plasma membrane domains; traffic of lipid anchored proteins

Douglas Fambrough: Ion transport ATPases
Ann Hubbard: Membrane dynamics

Carolyn Machamer: Golgi complex structure and composition

Richard Pagano: Distribution and transport of lipids
Trina Schroer: Role of microtubules in membrane traffic

The program is highly interactive—groups meet together regularly and a number of collaborative projects are underway. Interested applicants, preferably recent Ph.D. candidates, should send a statement of research interests to: **Dr. Michael Edidin, Department of Biology, The Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218. FAX: 410-516-5213; E-mail: Edidin@JHUVMS.HCF.JHU.EDU.**

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE, PENN STATE UNIVERSITY: The Physics Department of the Pennsylvania State University invites applications for a research associate position in experimental low-temperature physics. Applicants must have a Ph.D. in physics with a strong record in low-temperature physics research as applied to quantum fluids and critical phenomena. Demonstration of the ability to design, construct and operate dilution refrigerators and ancillary equipment is required. Knowledge of the techniques associated with experiments in restricting geometries, such as high-resolution thermometry and low-temperature acoustics, as well as some knowledge of the fabrication of such system is required.

Research duties include design and operation of the experimental facilities, the design and execution of experiments and the analysis and interpretation of their results, and of guiding graduate students in similar activities. Salary Range: \$26,000 to \$28,000. Location: University Park, Pennsylvania. Benefits: Offer full range of benefits. Approximate date position to be filled: September 15, 1994. Send letter of application, résumé and list of references to: **DR. MOSES CHAN, DEPARTMENT OF PHYSICS, 104 DAVEY LAB, BOX SCI, PENN STATE UNIVERSITY, UNIVERSITY PARK, PA 16802. APPLICATION DEADLINE: May 1, 1994. An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.**

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION available to study the structure/function of P-glycoprotein in multidrug resistant cancer cells. Ph.D. in molecular biology or biochemistry required. Experience with recombinant DNA techniques and site-directed mutagenesis is desirable. Send curriculum vitae and names of three references to: **A. R. Safa, Ph.D., University of Chicago Medical Center, 5841 South Maryland Avenue, MC 2115, Chicago, IL 60637.**

POSITIONS OPEN

NIH POSTDOCTORAL FELLOWSHIP Yale University School of Medicine Department of Dermatology

The Department of Dermatology, Yale University School of Medicine, is seeking applicants for a postdoctoral position in basic research starting July 1, 1994. *U.S. citizenship or permanent residency is required.* Salary is dependent on training and experience according to NIH guidelines. Submit curriculum vitae and two letters of reference to: **Dr. Ruth Halaban, Yale University School of Medicine, Department of Dermatology, P.O. Box 208059, New Haven, CT 06520-8059; Telephone: (203) 785-4352, (203) 785-5114; FAX: (203) 785-7234.**

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

RESEARCH FELLOWSHIPS

NIH-funded postdoctoral fellowships available to study the cellular and molecular basis of: immunologic, ischemic and toxic renal diseases; macrophages in autoimmunity; receptor biology and renal cell physiology. *U.S. citizenship or permanent resident alien status required.* Cell and/or molecular biological experience is desirable. Send letter, curriculum vitae and three references to: **Dr. David Salant, Renal Section, Boston University Medical Center, Boston, MA 02118. FAX: (617) 638-7326. Equal Opportunity Employer. Applications from women and minorities are strongly encouraged.**

RESEARCH FELLOW in Neuroendocrinology with Ph.D. or M.D. degree or equivalent with 3 years of experience in radioimmunoassays of gonadotropins, amino acid determinations, brain histology and animal procedures of cannulae implantation, microinjections and microdialysis of brain areas and use of stereotaxic equipment. 40 hours per week. \$24,700 per year. Send résumé and list of publications to document experience to: **Georgia Department of Labor, Job Order #GA5701211, 601 Greene Street, P.O. Box 160, Augusta, GA 30913.**

Bernheim Arboretum and Research Forest has two \$7,500 per year **RESEARCH FELLOWSHIPS** for qualified Ph.D. students in the following areas:

1) Development of an Integrated Pest Management Plan for the Landscape and Natural Arboretum.

2) A comprehensive entomological survey of the property. It is expected that \$6,000 be devoted to a stipend for the awardee and \$1,500 for research equipment and supplies, and fellowships are awarded on the condition that matching funds are available. Upon submission of a yearly progress report approved by the student's research committee and Bernheim, the Fellowship is renewable for additional years.

Bernheim is 25 miles south of Louisville and is "The Official Arboretum of the Commonwealth of Kentucky."

Please submit an application, with appropriate transcripts, documentation, and the names and telephone numbers of three references to: **Varley E. Wiedeman, Director of Research, Bernheim Arboretum and Research Forest, Clermont, KY 40110. Telephone: (502) 955-8512.**

TECHNICAL STAFF MEMBER sought by large molecular biology department to take responsibility for the implementation, interpretation, and educational aspects of governmental regulatory matters as they relate to radioactive, chemical, medical, and biohazardous materials, and to administer an extensive emergency, fire, and safety program. Candidates must have the ability to manage a phosphorous 32 storage-to-decay facility, oversee a chemical hygiene plan, be familiar with the blood-borne pathogens and laboratory safety standards, and be cognizant of the Nuclear Regulatory Commission rules and regulations. Of primary importance will be the ability of the technician to interact with laboratory managers, departmental administration, and to function as a liaison with the university's Office of Health and Safety. A degree in molecular biology, biology, or chemistry, along with demonstrated responsibility for regulatory matters in a research laboratory environment, are a must. Rank of Professional Technical Staff and salary dependent upon qualifications. Send application to: **Alice Lustig, Department of Molecular Biology, Lewis Thomas Laboratory, Princeton University, Princeton, NJ 08544.**

Princeton University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately to supervise two-year mosquito-borne virus surveillance project in Nebraska. Ph.D. in Entomology or Mosquito Biology desired. Send letter, curriculum vitae, and list of 3 references postmarked by May 1, 1994, to: **Dr. Wayne L. Kramer, Department of Entomology, University of Nebraska-Lincoln, 202 Plant Industry, Lincoln, NE 68583-0816; FAX: 402/471-0383. UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and assures reasonable accommodation under the Americans With Disabilities Act. Contact Dr. Kramer for information.**

RESEARCH SPECIALIST

Emory University School of Medicine, Division of Urology, is seeking a research scientist to head a newly established and funded project in gene therapy for prostate cancer. The successful candidate will have a Ph.D. or equivalent and specific experience in mammalian gene transfer. This is a grant-supported, full-time position with competitive salary and benefits. Please send curriculum vitae with documentation of relevant experience to: **Martha Brundige, Emory University Human Resources, 1762 Clifton Road, Atlanta, GA 30322; Telephone: 404-727-7589, TDD: 404-727-2075 (for the hearing impaired). Reference Job Number 320-7305MB. Affirmative Action/Equal Opportunity Employer.**

PHYSICS EDUCATION RESEARCH ASSOCIATE

The Department of Physics and Astronomy and the Division of Science Education of the College of Natural Science at Michigan State University is accepting applications for a research associate position in Physics Education commencing with the fall semester of 1994. Candidates should have a Ph.D. in Physics or Astronomy and are expected to participate in a research program involving teaching physics at the university level. This Science and Math Scholars program gives recent doctoral graduates opportunities to develop skills in and conduct research on science education at the university level while at the same time maintaining an involvement in research in physics. The program seeks to advance science education at Michigan State University by giving recognition and support to the study of science and mathematics teaching at the College level and by sending the scholars out to other institutions where they will nurture the new culture of teaching as scholarship. Interested candidates should submit curriculum vitae, a description of research interests and career goals and arrange for three letters of reference to be sent within three weeks to: **Professor Raymond Brock, Chair, Physics and Astronomy Department, Michigan State University, East Lansing, MI 48824-1116. Michigan State University is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE MOLECULAR BIOLOGY

Agouron Pharmaceuticals, Inc., an expanding Southern California-based pharmaceutical company and recognized leader in the field of structure-based drug design, has an immediate opening for a highly motivated M.S./B.S.-level scientist to join its multidisciplinary team.

The successful candidate will have a degree in biochemical sciences and a minimum of 2 to 5 years of relevant laboratory experience, preferably involving techniques of RNA isolation, RT-PCR, library construction and gene expression, as well as protein purification and characterization. Ability to work independently and communicate results effectively is also desirable.

We offer competitive salaries and benefits in addition to an intellectually stimulating environment. Please send a detailed résumé to: **Human Resources—Department SZ, AGOURON PHARMACEUTICALS, INC., 10350 North Torrey Pines Road, La Jolla, CA 92037.**

SCIENCE welcomes placement of line classified ads by FAX. Please include name and telephone number for our confirmation call when transmitting ad to:

FAX NUMBER: 202-682-0816

1994

Mentor Awards Call for Nominations

Lifetime Mentor Award (10 or more years)

Mentor Award (less than 10 years)

The American Association for the Advancement of Science (AAAS) invites nominations for the 1994 Mentor Awards. The two categories are *Lifetime Mentor Award* and *Mentor Award*. These annual awards honor individuals who, during their careers demonstrate extraordinary leadership to increase the participation of women of all racial/ethnic groups; African American, American Indian, and Hispanic men; and/or people with disabilities in science and engineering fields and careers.

A prize of \$5,000 and a commemorative plaque for the *Lifetime Mentor Award* will recognize any individual who has mentored and guided significant numbers of students from these underrepresented groups to the completion of doctoral studies and/or who has impacted the climate of a department, college, or institution to significantly increase the diversity of students pursuing and completing doctoral studies. This individual will have served in such a role for 10 years or longer.

The *Mentor Award*, a prize of \$2,500 and a commemorative plaque, will recognize an individual who has mentored a significant number of students over a period of less than 10 years.

Such commitment and extraordinary effort may be demonstrated by:

- the number and diversity of students mentored.
- assisting students to present and publish their work, to find financial aid, and to provide career guidance.
- providing psychological support, encouragement, and essential strategies for life in the scholarly community.
- continued interest in the individual's professional advancement.

The AAAS Mentor Awards are administered by the Committee on Opportunities in Science (COOS).

*Deadline for the 1994 Mentor Awards
nominations is 1 August 1994.*

The 1994 Awards will be presented during the Association's Annual Meeting in Atlanta, Georgia in February 1995.

For additional information concerning the awards, please contact Paula Lee or Yolanda George at (202) 326-6670.

Leon S. Wolfe Symposium

Lipids in the Nervous System: From Structure to Signal Transduction
International Meeting to Honor Professor Leon S. Wolfe
New Orleans, May 10-12, 1994

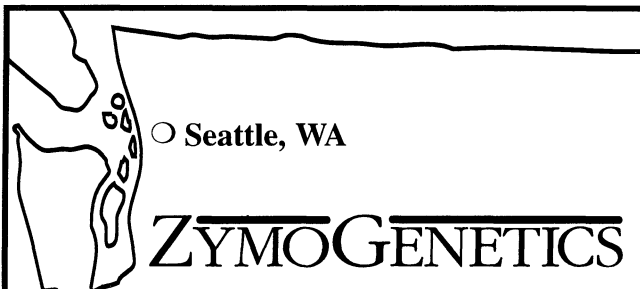
Sponsored by: Merck Research Laboratories, Merck/Frosst, Upjohn Company,
and the Louisiana State University Neuroscience Center of Excellence

Themes: Lipids, Isoprenoids and G-proteins, Lipids in Neural Cell Signal Transduction, Gangliosides and Glycosphingolipids and Neurobiology of Disease

Speakers and Chairpersons include: Roy Baker (Toronto, Canada), Nicolas G. Bazan (New Orleans, Louisiana), Pierre Braquet (Paris, France), Roger F. Butterworth (Montreal, Canada), John W. Callahan (Toronto, Canada), Erminio Costa (Washington, D.C.), M. Diksic (Montreal, Canada), Aled Edwards (Hamilton, Canada), Anthony W. Ford-Hutchinson (Pointe-Claire, Canada), M. Haltia (Helsinki, Finland), George Hauser (Belmont, Massachusetts), Lloyd A. Horrocks (Columbus, Ohio), R.D. Jolly (Palmerston, New Zealand), Frioze B. Jungalwala (Waltham, Massachusetts), Eiki Kominami (Tokyo, Japan), Eduardo G. Lapetina (Research Triangle Park, NC), J. Alexander Lowden (Regina, Canada), Guy M. McKhann (Baltimore, Maryland), Mario Moscarello (Toronto, Canada), Hugo Moser (Baltimore, Maryland), Mary Murphy (Halifax, Nova Scotia), Cecil R. Pace-Asciak (Toronto, Canada), Hanna M. Pappius (Montreal, Canada), M. Philippart (Los Angeles, California), L. Puglisi (Milan, Italy), Thomas A. Reader (Montreal, Canada), Betty I. Roots (Toronto, Canada), Abraham Rosenberg (Los Angeles, California), Takao Shimizu (Tokyo, Japan), Marion E. Smith (Palo Alto, California), Maurizio Soma and Rodolfo Paoletti (Milan, Italy), Theodore L. Sourkes (Montreal, Canada), Matthew W. Spence (Edmonton, Canada), Grace Y. Sun (Columbia, Missouri), Donald B. Tower (Chevy Chase, Maryland), M. Anthony Verity (Los Angeles, California), Steven U. Walkley (Bronx, New York), John R. Wherrett (Toronto, Canada), Victor P. Whittaker (Cambridge, England), Allan J. Yates (Columbus, Ohio), Ephraim Yavin (Rehovot, Israel), Moussa B.H. Youdim (Haifa, Israel), and Robert Zand (Ann Arbor, Michigan)

Organizers:
Nicolas G. Bazan
Louisiana State University
Neuroscience Center of Excellence
New Orleans
Flavio Coceani
Division of Neurosciences,
The Hospital for Sick Children
Toronto, Canada

For Information
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ZymoGenetics, a Seattle based biotechnology company making important strides in the development and clinical evaluation of therapeutic products aimed at tissue repair, coagulation disorders, and diabetes is currently seeking candidates for the following positions.

Bioinformaticist, #12N393

The successful candidate will possess a Ph.D. with strong backgrounds in Mathematics, Computer Science and Molecular Biology and will assume a leading role in a program to predict protein structure and function from sequence information. The position involves conducting a vigorous research program to develop techniques and software for database analysis and sequence statistical analysis, and to develop "intelligent" algorithms for the efficient handling of large quantities of sequence data.

Scientist, Chemistry, #15N394

The ideal candidate will participate in our multi-discipline drug discovery effort. The work will combine the isolation and analysis of bioactive natural products with medicinal chemistry aimed at the creation of novel therapeutics. The successful candidate will have a Ph.D. with at least 5 years postgraduate experience in the fields of natural products and analytical or synthetic chemistry, or an equivalent combination of education and experience.

Scientist, Molecular Biology #13N194

Applications are invited from individuals with strong backgrounds in molecular biology, including cDNA library construction, subtractive screening and expression library cloning. The ideal candidate will have a Ph.D. with 2+ years of relevant experience, or an equivalent combination of education and experience. The Molecular Cloning Group interacts with multidisciplinary departments which focus on hematopoiesis, hemostasis, diabetes and auto immune disease.

As a subsidiary of NOVO NORDISK, the world's largest manufacturer of insulin ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and generous benefits.

Please apply by sending your CV
indicating position number to:

ZymoGenetics, Inc.
Attn: Human Resources
4225 Roosevelt Way NE
Seattle, WA 98105

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ASSISTANT LABORATORY SUPERVISORS

Antarctic Support Associates is recruiting for Assistant Laboratory Supervisors, full-time and contract. These positions are responsible for planning and coordinating support for science projects in laboratory facilities at McMurdo and Palmer Stations and aboard two research vessels. Successful candidates must have the following skills: 1) knowledge of the operation, maintenance and troubleshooting of modern analytical instruments, 2) extensive experience with OSHA Laboratory Standards, and 3) strong communication and computer skills in word processing, electronic mail (Internet), spreadsheets and data bases.

Educational background and technical experience working in a modern analytical laboratory; at the undergraduate and/or graduate levels, in disciplines such as biology, chemistry, environmental science, geology, limnology, meteorology and oceanography are desired.

The positions require annual deployments for up to 5 to 12 months to Antarctica. Proof of U.S. citizenship is required, and applicants must be able to pass strict medical, physical and psychiatric exams.

For consideration, please fax (303-790-9130) or mail a typed resume with cover letter no later than 22 April 1994 to:



Antarctic Support Associates
61 Inverness Drive East, Suite 300
Englewood, CO 80112
Attn: HR-Assistant Laboratory Supervisor
Equal Opportunity Employer

POSTDOCTORAL OPPORTUNITIES - MOLECULAR IMMUNOLOGY AND VIROLOGY

The National Research Council (NRC) invites applications from individuals interested in conducting postdoctoral research at the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID), Fort Detrick, Frederick, MD. Research opportunities in molecular immunology include 1) intracellular targeting of cloned antigen genes to MHC class I and class II processing pathways and 2) characterization of naturally processed antigenic peptides. Previous experience in molecular and cell biology or physical biochemistry and mass spectroscopy, respectively, would be advantageous. For further information contact Dr. Robert G. Ulrich, Department of Immunology and Molecular Biology, USAMRIID, Ft. Detrick, Frederick, MD 21702-5011. Telephone (301) 619-7211; FAX (301) 619-2348; E-MAIL ulrich@fcfrv1.ncifcrf.gov.

Additional opportunities are available for work in design and evaluation of viral vaccines. Award recipients will pursue molecular approaches to evaluate viral gene function, mechanisms of virus attenuation, nonreplicating particle vaccines, eukaryotic expression vectors, and RNA replication for hantaviruses, flaviviruses and alphaviruses. Includes the use of eukaryotic and prokaryotic expression systems to study the role of individual proteins in infection and immunity and the effects of attenuating changes on viral gene function. Experience in animal virology and molecular biology preferred. For further information contact Dr. Connie S. Schmaljohn, Telephone (301) 698-7478; Dr. Erik A. Henchal, Telephone (301) 698-7463; or Dr. Kevin Anderson, Telephone (301) 698-7462; Virology Division, FAX (301) 619-2439 or 4625.

Each NRC awardee will work in one of the above project areas as a guest investigator at USAMRIID. Stipends begin at \$32,400 per annum and are appropriately higher for applicants with more than 5 years of experience. Requirements: Ph.D. or equivalent; U.S. citizenship preferred. Awards are for one year renewable to a maximum of three. Applications are accepted and evaluated by the NRC; deadlines for submission are April 15 for review in June and August 15 for review in October. For application materials contact the Associateship Programs (TJ 2094/UF), NATIONAL RESEARCH COUNCIL, 2101 Constitution Avenue, Washington, DC 20418 FAX: (202) 334-2759.

WEST VIRGINIA STATE COLLEGE FACULTY POSITIONS

INORGANIC/ANALYTICAL CHEMISTRY

Applications are invited from persons holding a Ph.D. degree in Inorganic Chemistry for a full-time, tenure-track position in an ACS-approved Chemistry Department of a four year state college. A strong commitment to excellence in teaching is mandatory and a background in GC-MS, FT-IR spectroscopy and NMR spectroscopy is desired.

Responsibilities include teaching advanced inorganic chemistry lecture and lab, instrumental analysis lecture and lab, general chemistry lecture and lab courses and other duties as determined by department needs. Position starts August 15, 1994. Salary and rank negotiable. Excellent benefit package.

ORGANIC CHEMISTRY

Applications are invited from persons holding a Ph.D. degree in Organic Chemistry for a full-time, tenure-track position at the Assistant or Associate Professor level in an ACS-approved Chemistry Department of a four year state college. A strong commitment to excellence in teaching is mandatory and a background in NMR and FT-IR spectroscopy is desired. The Department of Chemistry at West Virginia State College offers four-year B.S. in Chemistry and two-year A.A.S. in Chemical Technology degrees. Undergraduate research is required in the four-year programs.

Responsibilities include teaching elementary, intermediate, and advanced organic chemistry lecture and laboratory courses, a polymer science lecture course, developing and directing undergraduate research projects and other duties as determined by department needs. Starts July 1, 1994. Salary commensurate with qualifications. Excellent benefit package.

GENERAL/ANALYTICAL CHEMISTRY

Applications are invited from persons holding a Ph.D. degree in Analytical Chemistry for a full-time, tenure-track position in an ACS-approved Chemistry Department of a four year state college. A strong commitment to excellence in teaching is mandatory and a background in NMR and FT-IR spectroscopy and HPLC is required. The department offers four-year B.S. in Chemistry and two-year A.A.S. in Chemical Technology degrees.

Responsibilities include teaching general chemistry lecture and lab courses for non-science and science majors, quantitative analysis, and instrumental analysis lecture and lab for chemical technology and chemistry majors and other duties as determined by department needs. Position begins August 15, 1994. Salary and rank negotiable. Excellent benefit package.

West Virginia State College is an historically black college, which has evolved into a fully accessible, racially diverse and multigenerational baccalaureate institution with a Community College Division. Because of this tradition, the College enrolls a wide range of students and assists them in achieving their academic, civic, and career potential through quality undergraduate programs in a campus environment nationally recognized as a "Living Laboratory of Human Relations." West Virginia State College (WVSC) is the largest institution of higher education in the Charleston, West Virginia metropolitan area serving approximately 5,000 students. West Virginia State College is an Affirmative Action/Equal Opportunity Employer and actively solicits applications from women and minorities.

Send application letter, resume, statement of teaching and research philosophy, official undergraduate and graduate transcripts, and three letters of recommendation by May 1, 1994 to:

Barbara J. Oden, Ph.D.
Vice President for Academic Affairs
West Virginia State College
P.O. Box 1000
Institute, WV 25112-1000

Group Supervisor Adenovirus Production

Genetic Therapy, Inc., a leading biotechnology company, is developing viral-mediated gene transfer methods applicable to human gene therapy. The Tissue Culture Core Laboratory is seeking a scientist to lead a group responsible for adenovirus production.

Candidates should possess an MS or Ph.D. and have a strong background in adenovirus or other human virus vaccine production. Preference will be given to candidates familiar with GMP compliance.

GTI offers a stimulating and challenging environment, with competitive salaries and benefits. Please send a resume, along with the names and addresses of two references to:



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MOLECULAR BIOLOGY. Senior and staff scientist positions are available for individuals with a Ph.D. and a minimum of four years experience in the development of baculovirus expression vectors. Applicants must have demonstrated success in the cloning and expression genes baculovirus vectors as well as a strong foundation in molecular techniques including cloning, sequencing, and PCR technology.

CELL CULTURE. Senior and staff scientist positions are available for individuals with a Ph.D. and a minimum of four years experience in insect cell biology. Experience in all aspects of insect cell culture and demonstrated success in the production of recombinant proteins in insect cells are required. The ideal candidate would also have hands-on experience in the evaluation of protein expression and processing in insect cells and in the development of improved cell lines.

MicroGeneSys, Inc. offers competitive salaries and benefits as well as growth potential as we expand. Please forward your resume in complete confidence to:



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RESEARCH SCIENTIST

Seeking an individual with a strong record of scientific achievement to develop an independent research program. Applicants with a Ph.D. and/or M.D. degree and current federal research support are strongly encouraged to apply. **Children's Hospital Oakland Research Institute (CHORI)** is a well-equipped, basic research facility located on the campus of Children's Hospital Oakland. Current research programs encompass molecular biology, biochemistry, immunology, cell biology and mass spectrometry. CHORI offers a stimulating scientific environment with minimal teaching and administrative responsibilities, excellent compensation and benefits, combined with an ideal geographic location.

Qualified candidates should forward your application to **Children's Hospital Oakland Personnel Department, Attention Bertram H. Lubin, M.D., Chair, Search Committee, 747 52nd Street, Oakland, CA 94609.** Children's Hospital Oakland is an Equal Opportunity/Affirmative Action Employer.

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We are seeking a Research Scientist for the Nucleic Acid Synthesis product line. Responsibilities will include developing and optimizing automated DNA/RNA synthesizers, synthesizing reagents, and performing oligonucleotide analysis. Requires an MS or Ph.D. in Chemistry, or equivalent, and experience with instrument development or nucleic acid chemistry. A demonstrated knowledge of modern analytical methods and techniques is a must. (Ref. #1891)

•Consumable Development Manufacturing

Help take our multicomponent kits for fluorescent DNA sequencing and PCR analysis from laboratory prototype to commercial production. Your responsibilities will include laboratory bench development, product coordination, and the creation of documentation needed to commercialize the product. This position requires an MS or Ph.D. in Biochemistry or Chemistry, or equivalent, with a relevant background in DNA analysis techniques and some product commercialization experience. The right candidate will have technical skills in the areas of DNA sequencing, PCR analysis, and biomolecule separations (chromatography, HPLC, electrophoresis). (Ref. #1932)

We offer a competitive salary and generous benefits package. Please send your resume, indicating appropriate department code, to: Applied Biosystems, 850 Lincoln Centre Drive, Foster City, CA 94404. We are an equal opportunity employer.

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Applied Biosystems Division

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE—ANALYTICAL CHEMISTRY

Responsibilities involve the development of analytical methods for measuring drug concentration in biological fluids, using equipment such as HPLC and GC. Ph.D. in analytical chemistry or related discipline. Familiarity with the use of capillary electrophoresis. Deadline for application is April 15, 1994, or until position is filled. Interested candidates should submit introductory letter, curriculum vitae and three reference letters to: **Timi Edeki, M.D., Ph.D., Department of Pharmacology, Meharry Medical College, 1005 D.B. Todd Boulevard, Nashville, TN 37208. Telephone: 615-327-6636, FAX: 615-321-2957.**

RESEARCH SCIENTIST

A research position is available to set up an independent group within the Research and Development Department with focus on the development of viral systems for heterologous protein expression in higher eukaryotes. This position requires hands-on technical expertise as well as ability to function as supervisor/trainer. The successful candidate will serve as a scientific resource for the Company, participating in grant writing and publishing original research. Salary dependent on experience and credentials. Send curriculum vitae and names and addresses of three references to: **Human Resources, Invitrogen Corporation, 3985 B Sorrento Valley Boulevard, San Diego, CA 92121. An Equal Opportunity Employer.**

POSITION IN MOLECULAR BIOLOGY available immediately to develop microsatellites for use in parentage verification tests. Individual will coordinate with other labs to establish microsatellites as public-domain information. Candidates should possess training in molecular genetics and have experience in sequencing of microsatellites using standard techniques (restriction digestion, PCR amplification, bacterial transformation, recombination, ligation, etc.). This appointment is for a period of one year but may be renewed on availability of funds. Send curriculum vitae, publications list, statement of research interests, and three letters of reference to:

Dr. Jerry Caldwell, President ImmGen, Inc., P.O. Box 10135, College Station, TX 77842. ImmGen, Inc. is an Equal Opportunity Employer and urges all qualified applicants to apply.

ANNOUNCEMENTS

NIH/NCI Postdoctoral Intramural Research Training Award to study mechanisms of preconceptual tumorigenesis by chemical carcinogens and metals. *U.S. citizen*, 0 to 5 years postdoctoral, experience with gene expression, methylation, and/or sequencing. Excellent career development opportunity. **Dr. Lucy M. Anderson, Chief, Perinatal Carcinogenesis Section, Laboratory of Comparative Carcinogenesis, FCRC, Frederick, MD 21702.**

Applications encouraged from women and minorities.

CALL FOR NOMINATIONS

The deadline for nominations for the Lighthouse Pisart Vision Award has been extended to May 1, 1994. The Lighthouse Pisart Vision Award and \$15,000 are given annually to a nationally/internationally recognized person who has made a noteworthy contribution to overcoming blindness and/or visual impairment. Past award winners include Eliot Berson, M.D.; Prof. Norman Ashton; Sir John Wilson; and Carl Kupfer, M.D.

For more information, contact: **Gilda Gold, 212/808-0077, extension 1427.**

COURSES AND TRAINING

CARDIOVASCULAR PATHOPHYSIOLOGY FOR ENGINEERS AND SCIENTISTS

A one-week intensive course sponsored by the Massachusetts Institute of Technology. June 6-10, 1994, Cambridge, Massachusetts. **Dr. Richard J. Cohen**, Program Director. Basic Principles of Cardiovascular Physiology, Cardiovascular Medicine, Diagnostic and Therapeutic Technologies. Contact: **Director of the MIT Summer Professional Program, Telephone: 617-253-2101.**

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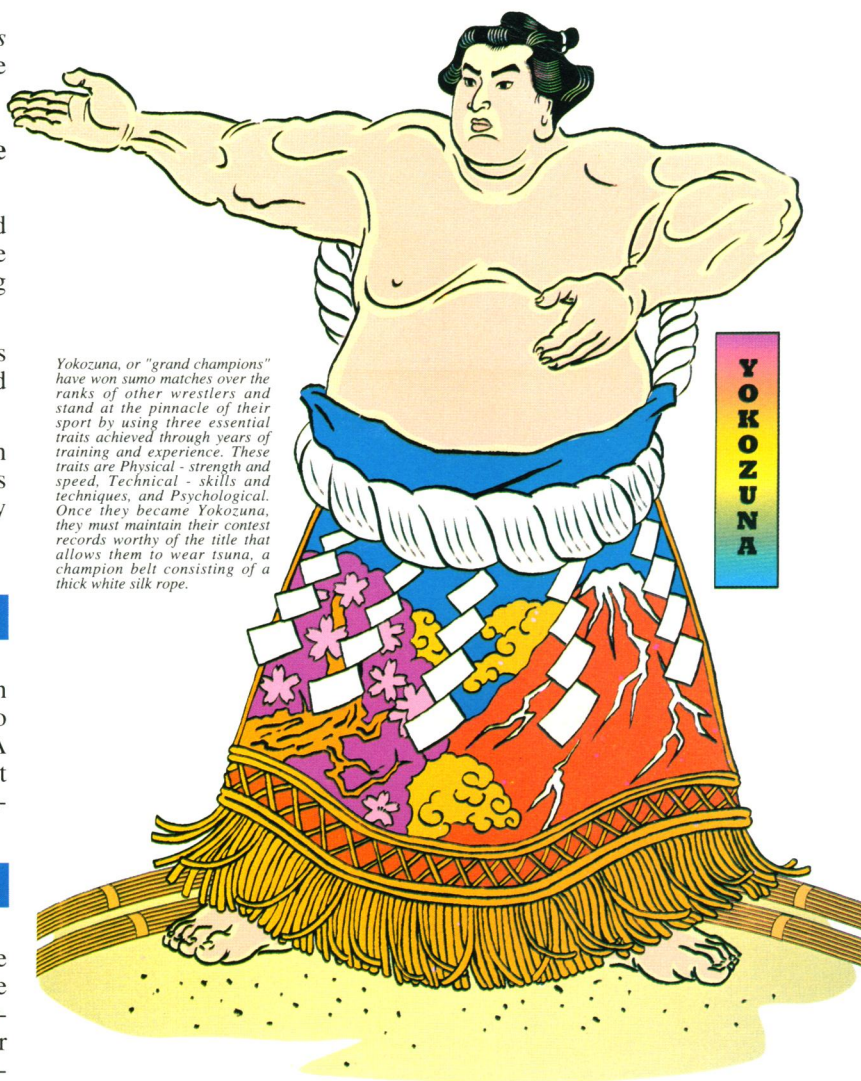
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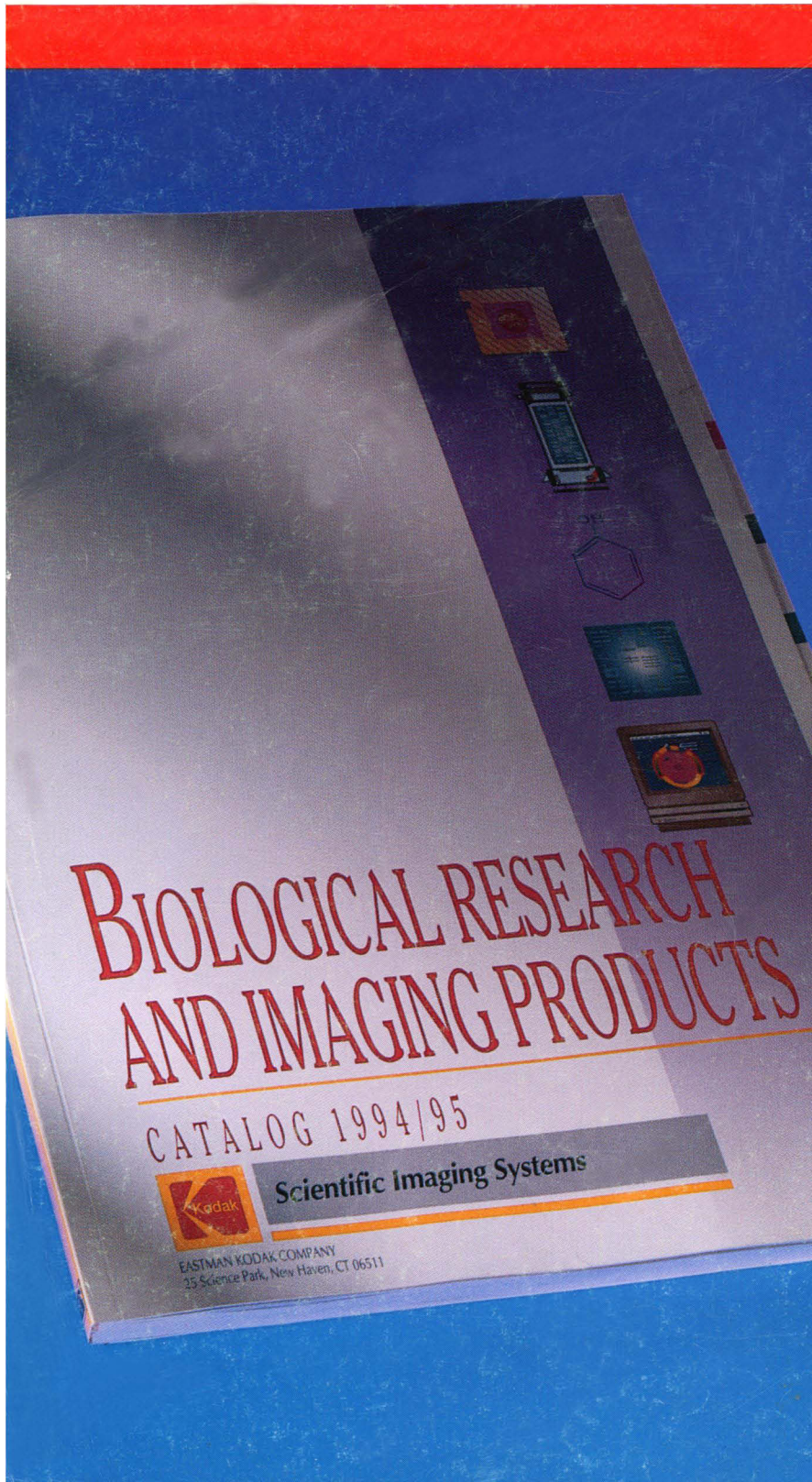
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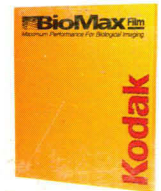
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