**POSITIONS OPEN**

A tenure-track ASSISTANT PROFESSORSHIP is available in the Department of Biology, The Catholic University of America, beginning September 1993. We seek an individual with primary interests in Immunology or Neurobiology, but exceptional candidates in other areas are encouraged to apply. Applicants should have the ability to establish a vigorous independent research program in a department that also emphasizes undergraduate teaching. Position subject to administrative approval. Send curriculum vitae, statement of research and teaching interests, and three letters of recommendation to: Dr. Sidney Petaks, Chairman, Department of Molecular Genetics and Microbiology, University of Medicine & Dentistry of New Jersey-Rutgers-Wagner Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635. UMDNJ, New Jersey's university of the health sciences, is an Affirmative Action/Equal Employment Opportunity Employer, and a member of the University Health Systems of New Jersey.

**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**

**FACULTY OF MEDICINE**

**MOLECULAR BIOLOGY**

Applications are invited for one, possibly two, tenure-track positions as ASSISTANT PROFESSOR of Molecular Biology within the Division of Basic Medical Sciences. Applicants should possess a Ph.D. or equivalent and relevant postdoctoral training and will be expected to develop an independent, externally funded research program. The Division of Basic Medical Sciences consists of approximately 45 scientists with strong research groups in cardiovascular physiology, human genetics, immunology, molecular biology and neuroscience. The molecular biology group has existing strengths in cancer research, virology, human genetics and developmental biology. The modern, well-equipped laboratories of the Division of Medicine are located adjacent to the General Hospital in the Health Sciences Centre on the campus of Memorial University. Applicants should submit curriculum vitae and a brief statement of research interests and future plans, by May 15, 1993, and arrange to have three letters of reference forwarded to:

**COORDINATOR/FULL OR ASSOCIATE PROFESSOR, LIFE SCIENCES PROGRAM**

Arizona State University (ASU) West invites applications for the position of Life Sciences Program Coordinator/Full or Associate Professor. POSITION DESCRIPTION: Responsibilities are similar to those of a department chair, with added task of building Southwesterner ecology and pre-professional biology tracks of new interdisciplinary degree program. Opportunity to develop innovative, high-quality programs focusing on ecology of the Southwest, and pre-professional biology in collaboration with a local biomedical research institute. REQUIRED QUALIFICATIONS: Ph.D. in Zoology or Biology, at least (3) years of combined teaching and administrative experience in a tenure-track position, strong publication and grant-writing record appropriate to level of appointment. DESIRED: Experience teaching and administering in interdisciplinary life sciences programs, experience related to new program development. APPLICATION PROCEDURES AND DEADLINES: Send letter of application describing qualifications, curriculum vitae, a minimum of three professional references (including telephone number), and small sample of publications to: Chair, Life Sciences Search Committee, Arizona State University West, P.O. Box 37100, Phoenix, AZ 85069-7100. Applications must be received by March 31, 1993, or by the end of each succeeding month until the position is filled. Subject to funding availability. ASU West is an Equal Opportunity/Affirmative Action Employer.

**VASCULAR PLANT TAXONOMY**

The University of North Carolina announces the availability of a temporary (non-tenure-track) position in the Department of Botany for fall 1993 and spring 1994. Applicants should already have in place a 3-year postdoctoral training. The position requires a Ph.D. degree in systematic botany, with a background in vascular plant taxonomy and a strong commitment to excellence in undergraduate teaching. Responsibilities include teaching in the areas of botany, introductory botany, student advising, herbarium work and research related to the specialty area. Salary commensurate with degree, rank, and experience. Women and minorities are encouraged to apply. Submit a letter of application by April 16, 1993, accompanied by curriculum vitae (including transcripts), and the names, addresses, and telephone numbers of three references to: Mr. Robert S. St substitution, 1 University Resources and Affirmative Action, Box 5043, University of North Alabama, Florence, AL 35630-0001; An Equal Opportunity Employer.
Research Opportunities In The Neurobiological Sciences.

Listed below are a few of the outstanding opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

Cell Differentiation and Transplantation
William J. Freed, PhD
Cellular differentiation and neurotransmitter (amino acid) uptake and release are being studied using neuronal cell lines in vitro and transplantation of cell lines into animals. Opportunities are available to utilize a variety of methods related to in vitro studies, develop cell lines, and conduct studies using intact animals. Knowledge of HPLC techniques and no more than three years of postdoctoral research experience are required. Neuropsychiatry Branch (OE-29), NIMH, Neuroscience Center at St. Elizabeths, 2700 Martin Luther King Avenue, SE, Washington, DC 20032.

Cellular and Molecular Neurobiology
Vittorio Gallo, PhD
Neurotransmitter receptors in glial cells are studied using molecular, biochemical, and pharmacological techniques. The expression of genes encoding receptor subunits is studied in cell culture to understand neurotransmitter receptor functional properties and their role in development. Experience in molecular or cellular biology is required. Laboratory of Cellular and Molecular Neurophysiology (OE-29), NICHD, Building 36, Room 2A21.

Molecular and Developmental Neurobiology
Denes v. Agoston, MD, PhD
The developmental regulation of the neurotransmitter phenotype is being studied using molecular and cell biological approaches, including various recombinant DNA techniques and the study of protein-DNA interactions. Specific areas of research include identification and isolation of genes that are uniquely expressed during neurodifferentiation. A proven background in molecular biology, preferably with experience in cell culture, is required. Laboratory of Developmental Neurobiology, NICHD, Building 36, Room 2A21.

Neuroendocrinology and Neuroimmunology
Eva Mezey, MD, PhD
Two positions are available to study the regulation of immune function in the gastrointestinal system by the CNS and the role of CNS catecholamines in stress. Experience in neuroanatomy and neuroanatomical techniques, molecular biological techniques, in situ hybridization, histochemistry, experimental surgery, or basic immunology is preferred. Candidates must have five or fewer years postdoctoral experience. Clinical Neuroscience Branch (OE-29), NINDS, Building 36, Room 3A17.

Neuropharmacology
Joseph M. Masserano, PhD
Neurotransmitter systems in both human and animal tissues are being studied using neurochemical and molecular biological techniques to understand the biochemical nature of schizophrenia and other neuropsychiatric disorders. Experience in neuropharmacology, neurobehavior, neurochemistry or molecular biology is preferred, and applicants must have less than five years postdoctoral experience. Laboratory of Neuropsychiatry (OE-29), NIMH, Neuroscience Center at St. Elizabeths, 2700 Martin Luther King Avenue, SE, Washington, DC 20032.

Regulation of Gene Expression
Michael Brenner, PhD
The factors involved in the regulation of gene expression in the central nervous system are being examined in vivo transcription, cell transfection, and transgenic mice. Current studies focus on gfa, a gene responsible for encoding an intermediate filament protein found primarily in astrocytes. Experience in molecular biology, biochemistry, or cell culture is desirable. Laboratory of Molecular Biology (OE-29), NINDS, Building 36, Room 3D02.

Additional Postdoctoral Fellowship Opportunities
For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3014922221 or 1,8003582221). The settings for modem access are "7,Even,1". When connected to NIH type in ",vtl00" at the connect message, "F5E" at initial, and "AJL1" at account.

A catalog describing NIH research opportunities may be accessed via the network-based (Internet) Gopher Information System. To access the NIH Gopher server, Gopher client software (available via anonymous ftp "boombox.micro.umn.edu") must be running on your computer and configured to point to "gopher.nih.gov", port "70". Select NIH Information to reveal the NIH Office of Education directory. Those interested in receiving information on other postdoctoral opportunities, clinical training opportunities, or accessing Gopher may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

To Apply
If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (e.g., MD, DO, DDS, or DVM) accompanied by previous laboratory research experience and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.

National Institutes Of Health
9000 Rockville Pike, Bethesda, MD 20892
Equal Opportunity Employer
POSITIONS OPEN

FACULTY POSITIONS
CELL BIOLOGY AND ANATOMY

The Department of Cell Biology and Anatomy and the Basic Science Section of the Cardiovascular Developmental Biology Center at the Medical University of South Carolina offers positions at the Assistant Professor, Associate Professor, or Professor level. Candidates with a Ph.D. and/or M.D. degree, proven record of research and publications and the ability to interact harmoniously with the faculty and students, are encouraged to apply. The Department supports an active research program in cardiovascular biology and provides a stimulating environment for teaching and research activities. Applicants should send curriculum vitae and names of three references to: Dr. Christopher N. Yusko, Chair, Department of Cell Biology and Anatomy, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.

SENIOR RESEARCH ASSISTANT PROFESSOR
Section of Allergy/Immunology, East Carolina University School of Medicine is seeking a senior researcher to perform research on anti-inflammatory mediators in asthma. Applicant must have a Ph.D. and experience in animal physiology, immunology, pharmacology, or closely related fields. 2 years postdoctoral experience is preferred. Please send curriculum vitae and three references to: W. James Metzger, M.D., Department of Medicine, East Carolina University, Greenville, NC 27858-4354, East Carolina University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

The Department of Chemistry of Northern Michigan University is seeking applicants for tenure-track faculty positions. The Department of Chemistry is interested in candidates at the Assistant Professor, Associate Professor, or Professor levels who can contribute to its undergraduate teaching and research. Applicants should send curriculum vitae and names of three references to: Dr. Robert E. Sievers, Chair, Department of Chemistry, Northern Michigan University, 1170 University Drive, Petoskey, MI 49770.

ASSISTANT PROFESSOR OF BIOLOGY—Temporary, full-time, one-year position beginning August 20, 1993. Responsibilities include teaching, research, and service. Applicants must have a Ph.D. in Biology with proven research experience. The position is renewable annually if the position is funded. Send application, curriculum vitae, and three letters of recommendation to: Dr. R. G. Schlegel, Chairman, Department of Biology, SUNY College at Oswego, Oswego, NY 13126.

POSITIONS OPEN

The University of Cincinnati College of Medicine is seeking applicants for a position in the Department of Respiratory Related Biology. The University of Cincinnati College of Medicine invites applications from candidates who have a Ph.D. or M.D. with research experience in the field of pulmonary diseases. Applicants are encouraged to submit a letter of interest, curriculum vitae, and names of three references to: Dr. Stephen L. Garlett, Assistant Professor, Chair, Department of Respiratory Related Biology, University of Cincinnati College of Medicine, Cincinnati, OH 45267.

TENURE AND NON-TENURE-TRACK POSITIONS

POSITIONS OPEN

The University of California, Irvine, Department of Anatomy and Neurobiology, invites applications for a position at the rank of Associate/Assistant Professor. Applicants should have a Ph.D. or M.D. in anatomy, neuroscience, or biology and be capable of teaching and doing research in the area of neuroscience and neurobiology. Applicants should send a letter of interest, curriculum vitae, and names of three references to: Dr. Michael J. Tabak, Dean, School of Medicine, University of California, Irvine, CA 92717. Applications will be considered until the position is filled.

POSITIONS OPEN

The University of Rochester Research Assistant Professors

Two scientist-level (non-tenure-track) positions available immediately for individuals with strong eukaryotic molecular biology skills. One position involves cloning and expression of genes in yeast (Dr. J. P. Melvin). The second position involves expression of chimeric proteins to study the regulation of O-glycosylation (Dr. L. Tabak). Position announcements begin immediately and will continue until positions are filled. Applications should include curriculum vitae and the names of three references to either Dr. J. P. Melvin or Dr. L. Tabak at: Department of Microbiology, University of Rochester Medical Center, Box 611, 601 Elmwood Avenue, Rochester, NY 14642-6303.

The University of Rochester is an Equal Opportunity/Affirmative Action Employer.
We're Scios Nova Inc., an emerging biopharmaceutical leader with a broad technology base, including five products in clinical trials and several others in pre-clinical testing. Scios Nova is committed to being on the leading edge for the discovery, development and commercialization of novel therapies for the treatment of human disease, and is seeking individuals who share that commitment to fill the following positions in our San Francisco Bay Area location.

SCIENTIST
Analytical Methods Development
Your responsibilities include methods development and validation for recombinant biological products, coordination of stability studies within the AMD group, and supervision of 1-2 Research Associates. You will also generate data and reports suitable for PLA submission. A PhD in Biochemistry/Analytical Chemistry, coupled with 1-3 years’ experience in analytical methods development and strong HPLC background are required. Excellent communication and organizational skills are necessary. Experience with GLP/cGMP compliance is advantageous. Code 5312

SCIENTIST/RESEARCH ASSOCIATE
Immunology/Immunogenetics
We seek an independent investigator to participate as a key member of a team introducing a new product to market. You will have responsibility for investigating the mechanism of action of a new class of immunology inhibitors, leucine-rich and contributing to the creation and evaluation of ideas about new products/programs. A degree in the Biomedical Sciences and at least 3-5 years’ related experience in neutrophil and endothelial cell biology are required. Code 5313

SCIENTIST/RESEARCH ASSOCIATE
Protein Chemistry
Primary duties include developing methods for purifying/characterizing proteins and peptides, and designing methods for isolating/purifying novel therapeutic agents. Along with at least 2 years’ relevant experience, the ideal candidate will have a degree in Chemical Engineering, Biochemistry or related discipline. Experience in the design and operation of chromatographic processes is required. Sequencing is a plus. Code 5314

Scios Nova offers a stimulating scientific environment and an outstanding compensation/benefits package. Please send your resume, indicating position code, to: Scios Nova Inc., 2450 Bayshore Parkway, Mountain View, CA 94043. Or FAX to: (415) 968-2438. EOE.

Department of Energy
Office of Energy Research

AGENCY: Department of Energy (DOE)
ACTION: Notice inviting grant applications

SUMMARY: The Office of Health and Environmental Research (OHER) of the Office of Energy Research (ER), U.S. Department of Energy (DOE), hereby announces its interest in receiving applications in support of the Ethical, Legal, and Social Issues (ELSI) activities of the Human Genome Program (HGP). The Program is a coordinated, multidisciplinary research effort aimed at developing creative, innovative resources and technologies that will lead to a detailed understanding of the human genome at the molecular level. This particular research notice encompasses research grants that address ethical, legal, and social issues that may arise from the use of information and knowledge resulting from the HGP. The DOE especially encourages the submission of applications to conduct multidisciplinary, empirical research on priority issues from the creation, use, maintenance, and disclosure of genetic information. This may include (but is not limited to) issues of ownership and information, and the role(s) of high performance computers in information management relevant to genetic data. Applications should demonstrate knowledge of the relevant literature, and should include detailed plans for the gathering and analysis of factual information and the exploration of issues associated with the ethical, legal, and social implications of the knowledge gained from the HGP. All applications should include, where appropriate, detailed discussion of human subjects protection issues; e.g., storage of, manipulation of, and access to data. Where survey techniques are proposed, provisions to ensure the inclusion of women, minorities, and potentially disabled individuals must be described, unless specific exclusions are scientifically necessary and justified in detail.

All proposed research applications should address the issue of efficient dissemination of results to the widest appropriate audience.

The DOE is also soliciting applications for the preparation and dissemination of educational materials in any appropriate medium that will enhance public understanding of both the scientific aspects and the ethical, legal, and social aspects of the HGP. In addition, the DOE is encouraging applications for the support of conferences focusing on specific issues or areas of concern related to the ethical, legal, and social implications of the HGP. Educational and conference applications should also demonstrate awareness of the relevant literature, and include detailed plans for the accomplishment of project goals, including, where appropriate, video productions. In the case of educational activities, the DOE strongly encourages the exclusion of assessments of effectiveness of the proposed activities. In the case of all conferences, a fairly detailed and complete roster of committed speakers is necessary. At the completion of the conference, a summary or report is required. Educational and conference applications must also demonstrate awareness of the need to reach the widest appropriate audience.

DATES: Formal applications submitted in response to this notice must be received by 4:30 p.m., EDT, July 15, 1993, to be accepted for merit review in September 1993 and to permit timely consideration for award in Fiscal Year 1994.

ADDRESSES: Formal applications referencing Program Notice 93-13 should be forwarded to: U.S. Department of Energy, Acquisition and Assistance Management Division, ER-64, Washington, D.C. 20585, ATTN: Program Notice 93-13. The following address must be used when submitting applications by U.S. Postal Service Express Mail or any commercial mail delivery service, or when handcarried by the applicant: U.S. Department of Energy, Acquisition and Assistance Management Division, ER-64, 19901 Germantown Road, Germantown, MD 20874.


SUPPLEMENTARY INFORMATION: Potential applicants are strongly encouraged to submit a preapplication in accordance with 10 CFR 600.10(d) (2), which consists of two to three pages of narrative describing research objectives, methods of accomplishment, and measures of accomplishment including anticipated products. These will be reviewed relative to the scope and the research needs of the DOE’s Human Genome Program ELSI activities. Preapplications referencing Program Notice 93-13 should be received by April 1, 1993, and sent to Dr. Daniel W. Drell, Office of Health and Environmental Research, ER-72 (GTN), U.S. Department of Energy, Washington, D.C. 20585. Telephone and FAX numbers are required parts of the preapplication. A response to the preapplication discussing the potential program relevance of a formal application will be communicated by May 15, 1993.

The dissemination of materials and research data in a timely manner is essential for progress towards the goals of the DOE Human Genome Program. The OHER requires the timely sharing of resources and data. Applicants should, in their applications, discuss their plans for disseminating research data and information, educational and training materials, and conferences and meetings. Participants are encouraged to use electronic means to disseminate results and are expected to do so. However, such requests must be adequately justified. It is anticipated that approximately $1,100,000 will be available for grant awards during FY 1994, contingent upon availability of appropriated funds. Multiple year funding of grant awards is also contingent upon availability of funds. Previous awards have ranged from $5,000 per year up to $45,000 per year with terms from 1 to 3 years. Similar award sizes are anticipated for new grants. Information about development and submission of applications, eligibility, limitations, evaluation, selection process, and other policies and procedures may be found in the ER Special Research Grants Application Kit and Guide. In addition, Teleconference 10 CFR Part 605 and the application kit and guide is available from the U.S. Department of Energy, Office of Health and Environmental Research, Office of Energy Research, ER-72, Washington, D.C. 20585. Telephone requests may be made by calling (301) 903-6488. The Catalog of Federal Domestic Assistance number for this program is 81.049.

Federal Register, Volume 56, Issue 30, pg 8747.
Postdoctoral Fellow in Developmental Biology

We are seeking a Postdoctoral Fellow to join our Developmental Biology Department. A Ph.D. in Biochemistry, Molecular Biology or a related discipline is required. An interest in transgenic mice models in the areas of inflammation and tissue-specific growth factors is highly desirable. (Job Code S-515)

Research Associate in Developmental Biology

Your BS/MS degree, coupled with a minimum of 2 years experience in Molecular Biology and the ability to work independently will make you an ideal candidate for Research Associate.

BIOCHEMICAL TOXICOLOGY/METABOLISM SCIENTIST

The Agricultural Group of Monsanto Company has an immediate opening for a Biochemist/Toxicologist in the Environmental Health Laboratory. This position in the Biochemical Toxicology and Metabolism Group will be responsible for the conduct of biochemical toxicology, pharmacokinetic and metabolism studies to support product registration and defense. The successful candidate should possess a Ph.D. in pharmacology, toxicology, biochemistry or related discipline with a minimum of three years post-doctoral experience. Experience as a study director/principal investigator and knowledge of GLP for toxicology studies is highly desired.

Monsanto offers an excellent compensation and comprehensive benefits package, paid relocation and an exciting environment to meet personal challenges and enhance career growth. Interested applicants should forward resume to:

John D. Figiel,
Human Resources Manager
MONSANTO COMPANY,
700 Chesterfield Parkway North
St. Louis, Missouri 63198

Monsanto is an Equal Opportunity Employer M/F/D/V. We will provide reasonable accommodations upon request.

Monsanto
With 21 consecutive years of record growth and close to $8 billion in sales, it would be easy to rest on our laurels. But at Abbott Laboratories, we’re not satisfied with just the status quo. Supported by significant R&D investment, our Chemical and Agricultural Products Division has exciting plans to strengthen our leadership in the development, manufacture and marketing of bulk drugs and generic compounds as well as products for crop protection, forestry and animal health. Now is your opportunity to be a significant part of our future innovation.

Research Development Chemists - Will play an integral part in the conception, development and start-up of the chemical processes for new compounds, maximizing efficiency both in the lab and on a manufacturing scale. Depending on position, duties may also include providing support for our bulk drug manufacturing processes, typically multistep organic synthesis of sophisticated compounds. We require a MS or PhD in Synthetic, Organic or Medicinal Chemistry. A broad background in synthetic or analytical chemistry is essential as is experience in process development and pilot plant scale-up. Knowledge of regulatory, GMP and environmental factors are desirable as is experience in fine chemical and pharmaceutical manufacturing operations. Reply to Job SCIA.

Research Analytical Chemist - Will develop methods of analysis for bulk drugs and chemicals, low-level residues analysis methods for new products, and analytical and environmental chemistry sections for NDA/EPA submissions. We prefer a MS or PhD in Analytical Chemistry with at least 2 years of industrial or postdoctoral experience. Familiarity with Chromatography, such as HPLC, GC and TLC, is essential. Reply to Job SCIB.

Peptide Process Development Chemist - Will be involved in process R&D in a team environment directed toward the discovery and scale-up of new synthetic and separation processes for the preparation of research and pilot quantities of bulk peptide drugs by solution and process chemistry. We require a MS or PhD in Organic Chemistry with at least 2 years of productive bench experience and enthusiasm for large scale solution and solid phase synthesis, and purification of peptides, peptidomimetics, and unusual amino acids. Reply to Job SCIC.

Biochemist/Cell Biologist - Will provide technical support and develop process improvements for a bulk pharmaceutical derived from natural products. A MS or PhD in Biochemistry or Cell Biology with at least 2-10 years experience with differential centrifugation separation techniques is required. Reply to Job SCID.

Abbott offers an exceptional salary and benefits package including profit sharing and a stock retirement plan. We are located approximately 30 miles north of Chicago. For confidential consideration, please send resume (indicating appropriate reply code) with salary history to: Tracey Nielsen, Corporate Staffing, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.
IMUNOLOGIST

ASSISTANT PROFESSOR. The Research Group on Burn Injuries in Hotel-Dieu Hospital, Montreal, Canada and the Clinical Research Center of Hotel-Dieu are seeking a young investigator with a Ph.D. in immunology to pursue clinical and/or fundamental research on the immune system during injury and trauma. Send curriculum vitae, statement of research interests, names and addresses of three references, and a statement about your research orientations to: D. R. Garrel, M.D., Clinical Research Center, Hotel-Dieu Hospital of Montreal, Quebec, Canada, H2W 1T6.

MOLECULAR GENETICIST

Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level beginning September 1, 1993. The successful candidate must have a Ph.D. in genetics or molecular biology, an introductory course for majors emphasizing cell biology and genetics, and other courses as needed by the department. Qualifications for the position include a Ph.D., postdoctoral or comparable research experience, demonstrated interest and ability in teaching, and a desire to participate in research with undergraduate students. Send curriculum vitae, undergraduate and graduate transcripts, a statement of teaching and research interests, and three letters of recommendation to: Kathleen Fishbeck, Chair, Department of Biology, St. Olaf College, Northfield, MN 55057-1098 by April 1, 1993. St. Olaf College is a co-educational liberal arts college of the Evangelical Lutheran Church of America. St. Olaf is an Equal Opportunity Employer.

MUCRUAL MOLECULAR BIOLOGIST

The Biology Department, George Mason University, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level beginning August 1993. A Ph.D. and postdoctoral experience are required. The successful candidate will be expected to establish an externally funded research program in the area of microbial molecular biology with an emphasis on biotechnological/industrial applications. A commitment to excellence in both undergraduate and graduate teaching will also be expected. Applications, including curriculum vitae, statement of research interests, and three letters of recommendation should be sent by April 9, 1993, to: Chairman, Molecular Biologist Search Committee, Department of Biology, George Mason University, Fairfax, VA 22030-4444.

George Mason University is an Equal Opportunity/Affirmative Action Institution.

ALBERT EINSTEIN

COLLEGE OF MEDICINE

DEPARTMENT OF MEDICINE, DIVISION OF CARIOLOGY AND HEMATOLOGY

Position for DIRECTOR of Platelet Research Laboratory. Researcher with track record in independent platelet basic research applicable to the area of Coronary Artery Disease. Ph.D. or M.D., experience in Molecular Biology preferred, but not mandatory. Please contact: Harold Spritz, Ph.D., Department of Cardiology, 111 East 210th Street, Bronx, NY 10467, or FAX: (718) 697-6798.

SCIENCE

MAXIMUM ATTENTION MINIMUM COST

Have your ad stand out in the crowd. When you have a position and you don't have the funds for a display ad, place a line ad with a BOX or LOGO. If you choose the boxed ad you will be charged 2 lines for the top and bottom rule and it allows 48 characters instead of 52 characters per line. For a logo we only charge for how many characters you would normally include.

PROGRAM OFFICER

The James S. McDonnell Foundation, a major private foundation having special interests in education and the behavioral and biological sciences, is seeking an energetic, resourceful professional to fill the position of Program Officer.

The successful candidate will coordinate the foundation's existing research programs in education and cognitive neuroscience, assist in identifying and formulating new program areas, and monitor the progress of ongoing grants, interact regularly with grantees and the foundation's program advisory boards, plan and coordinate national meetings, assist in preparing and presenting material to the Board of Directors, and represent the foundation locally and nationally where appropriate.

Programs and applicants should demonstrate superior oral and written communication skills and have a proven record of strong administrative abilities. Candidates for the position must hold a graduate degree in the behavioral, biological, or social sciences and have at least five years of teaching, research, or administrative experience. Prior grantmaking experience is not required but will be considered an advantage.

Salary commensurate with experience plus fringe benefits. The deadline for receipt of application is April 16, 1993. Qualified candidates should send a letter explaining their interest in the position, résumé, salary requirements, and three letters of reference to: John T. Bruer, Ph.D., President, James S. McDonnell Foundation, 1034 South Brentwood Boulevard, Suite 1610, St. Louis, MO 63117.

An Equal Opportunity/Affirmative Action Employer.

HARVARD/POSTDOCTORAL POSITIONS available immediately to study hormonal and developmental control of genes and their function during adipocyte differentiation and lipid biosynthesis. Send curriculum vitae plus 3 letters of recommendation to: John B. Breslow, Ph.D., Department of Nutrition, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

An Equal Opportunity/Affirmative Action Employer.

SCIENCE • VOL. 259 • 12 MARCH 1993

SUPERVISOR OCEANOGRAPHER, OR SUPERVISORY RESEARCH FISHERY BIOLOGIST. The U.S. National Marine Fisheries Service announces a permanent interdisciplinary position. Serves as Chief of the Pacific Climate and Fisheries Laboratory, Monterey, California and is responsible for research on fishery-environmental interactions with a goal of expanding the ability of fisheries science and management to deal effectively with environmental fluctuations and trends. An essential requirement for the position is experience with the development of environmental data. A Ph.D. in marine science series is 56,627 to 73,619, GM-15, $66,609 to $86,589 yearly. Application (SF-171 and curriculum vitae) must be received by close of business on Thursday, May 7, 1993. Send to: WASC Personnel Division, 7600 Sand Point Way N.E., Seattle, WA 98115-0070. Enter W/FSC/93-177PM on item #1 of SF-171. Equal Opportunity Employer.

CHAIRPERSON, DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS

The University of Cincinnati College of Medicine announces an opening in the Department of PHYSIOLOGY AND BIOPHYSICS. The College of Medicine ranks among the top 30 colleges of medicine nationally in grant holdings and has significant interdisciplinary and national recognition. Individuals able to take advantage of the University's significant investments in the transgenic and gene targeting technologies are particularly encouraged to apply. Information and nominations are welcomed. Interested individuals should submit curriculum vitae and the names of three references to: Jeffrey Robbins, Chair, Search Committee, Office of Development and Pharmacology and Cell Biophysics, University of Cincinnati, OH 45267-0575.

The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer. Women, minorities, disabled persons, Vietnam era and disabled veterans are encouraged to apply.

SUPERVISING PROFESSIONAL ENVIRONMENTAL SCIENTIST

The South Florida Water Management District has a position available for a senior-level scientist to provide strong leadership in aquatic sciences within the Nutrient Removal Project, the largest engineered wetlands treatment system in the world. A Ph.D. in wetlands systems ecology with an emphasis on field and laboratory experimentation is preferred along with four years of related experience including two years of supervisory experience. The District offers competitive salaries, excellent benefits and a smoke-free work environment. Application must be received before March 1, 1993, all new hires will be required to successfully complete a pre-placement drug test. For consideration send your resume and equal opportunity application to:_hr. Section for Career Development, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416. Equal Opportunity Employer, M/F/D/V.
POSTDOCTORAL TRAINING POSITIONS

Postdoctoral research training positions are currently available for recent recipients of Ph.D. and/or M.D. degrees with knowledge and experience in protein biochemistry and/or molecular biology. Training opportunities include but are not limited to the use of biochemical and molecular biological techniques to study the following:

- Structure-function relationships of coagulation proteins
- Enzymology and kinetics of blood coagulation
- Receptor-mediated interactions of coagulation proteins with platelets
- Characterization of intrinsic platelet coagulation proteins and inhibitors
- Characterization of structural domains of coagulation proteins including factors XI, IX, VIII, and X and high molecular weight kininogen

Interested candidates may send correspondence, curriculum vitae, and three letters of reference to: Peter N. Walsh, M.D., Ph.D., Professor of Medicine, Biochemistry and Thrombosis Research, The Sol Sherry Thrombosis Research Center, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. Temple University School of Medicine is an EOE/AA employer and strongly encourages applications from women and minorities.

Medicinal Chemists
Molecular Microbiologists

Microcide Pharmaceuticals, an innovative, new San Francisco Bay Area pharmaceutical company, focused on the discovery and development of novel antimicrobial agents for the treatment and prevention of human infections of bacterial and fungal origin is seeking highly motivated individuals to form state-of-the-art medicinal chemistry and molecular microbiology departments.

Openings exist for Associate Chemists/Biologists with BS/MS or equivalent, Post-doctoral Chemists/Biologists, and Senior Research Chemists/Biologists with PhD or equivalent and 2-4 years experience.

This is an exciting opportunity for persons with initiative, flexibility and energy to contribute to a rapid-growth start-up organization. We offer a competitive salary, excellent benefits and equity participation. For immediate consideration please send or fax your resume to: Employment Dept., Microcide Pharmaceuticals, Inc., 4040 Campbell Road, Menlo Park, CA 94025. (415) 550-2760, or call 1-800-795-3502.

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Microcide Pharmaceuticals

Department of Energy
Office of Energy Research
Energy Research Financial Assistance Program Notice 93-12: Human Genome Program—Technological Advances

AGENCY: Department of Energy (DOE)
 ACTION: Notice inviting grant applications

SUMMARY: The Office of Health and Environmental Research (OHER) of the Office of Energy Research (ER), U.S. Department of Energy (DOE), hereby announces its interest in receiving applications in support of the Human Genome Program. This Program is a coordinated, multidisciplinary, goal-oriented research effort aimed at developing creative, innovative resources and technologies which will lead to a detailed understanding of the human genome at the molecular level. Several research goals are encompassed in this notice, with collaborative, multidisciplinary efforts specifically encouraged. Research will be supported: (1) for development and implementation of mapping resources, cross connecting distinct DNA clone libraries, mapping strategies and automated mapping instrumentation; (2) for advanced DNA sequencing technologies, specifically, innovative instrumentation and automated systems that offer the potential for rapid, cost-effective, large-scale sequencing, and (3) to develop software for use in chromosome mapping and DNA sequencing, and data analysis. Such work may include information retrieval, user interfaces including interfaces compatible with Genome Data Base (GDB), algorithms, software engineering, and data management. Also desired are improved computational resources for analyzing DNA sequences, including identification of homologies, regulatory sites, and protein coding sequences.

DATES: Formal applications submitted in response to this notice must be received by 4:30 p.m., E.D.T., July 15, 1993, to be accepted for merit review in September 1993, and to permit timely consideration for award in Fiscal Year 1994.

ADDRESS: Formal applications referencing Program Notice 93-12 should be forwarded to: U.S. Department of Energy, Office of Energy Research, Acquisition and Assistance Management Division, ER-64, Washington, D.C. 20585, ATTN: Program Notice 93-12. The following address must be used when submitting applications by U.S. Postal Service Express Mail or any commercial mail delivery service, or when hand-carried by the applicant: U.S. Department of Energy, Acquisition and Assistance Management Division, ER-64, 19901 Germantown Road, Germantown, MD 20874.


SUPPLEMENTARY INFORMATION: Potential applicants are strongly encouraged to submit a brief preapplication in accordance with 10 CFR 600.10(d)(2), which consists of two to three pages of narrative describing the research project objectives and methods of accomplishment. These will be reviewed relative to the scope and research needs of the DOE’s Human Genome Program. Preapplications referencing Program Notice 93-12 should be received by April 15, 1993, and sent to Dr. David A. Smith, Office of Health and Environmental Research, ER-72 (GTN), Washington, D.C. 20585. Telephone and FAX numbers are required parts of the preapplication. A response to the preapplications discussing the potential program relevance of a formal application generally will be communicated within 30 days of receipt.

It is anticipated that approximately $5,000,000 will be available for grant awards during FY 1994, contingent upon availability of appropriated funds. Multiple year funding of grant awards is expected, and is also contingent upon availability of funds. Previous awards have ranged from $79,000 per year up to $1,000,000 per year with terms from 1 to 3 years. Most awards are in the $200,000 to $400,000 per year range for 3 years. Similar award sizes are anticipated for new grants. Information about development and submission of applications, eligibility, limitations, evaluation, selection process, and other policies and procedures may be found in the ER Special Research Grants Application Kit and Guide and 10 CFR Part 605. The ER, as part of its grant regulations, requires at 10 CFR 605.11(b) that a grantee funded by ER and performing research involving recombinant DNA molecules and/or organisms and viruses containing recombinant DNA molecules shall comply with the National Institutes of Health “Guidelines for Research Involving Recombinant DNA Molecules” (51 FR 16958, May 7, 1986), or such later revision of those guidelines as may be published in the Federal Register.

The dissemination of materials and research data in a timely manner is essential for progress towards the goals of the DOE Human Genome Program. The OHER requires the timely sharing of resources and data. Applicants should, in their applications, discuss their plans for disseminating research data and materials which may include, where appropriate, putting cell lines, probes, sequence data, etc., into public repositories. Once OHER and the applicant have agreed upon a distribution plan, it will become part of the award conditions. Funds to defray the costs of disseminating materials or submitting data to repositories are allowable; however, such requests must be adequately justified. Applicants should also provide timelines projecting progress toward achieving proposed goals.

The application kit and guide is available from the U.S. Department of Energy, Office of Health and Environmental Research, Office of Energy Research, ER-72, Washington, D.C. 20585. Telephone requests may be made by calling (301) 903-6488. The Catalog of Federal Domestic Assistance Number for this program is 81.049.

Federal Register; Volume 58, Issue 30, pg 8746.
**POSITIONS OPEN**

**RESEARCH ASSOCIATE PROFESSOR**—Collaborate with NIH-funded studies of humoral factor(s) affecting cell growth and ion transport in hypertensive (see Curr. Opin. Nephrol. Hypertens. [1993] 2: 141–3) and 71, 143–144. Applicants should have Ph.D. in biochemistry, pharmacology, or cell biology and postdoctoral training. Experience with other chromatographic methods is preferred. Apply by June 1, 1994. Salary is competitive. Initial beginning salary up to $38,000 is negotiable. Send curriculum vitae by April 30, 1993, to: J. W. Overbeck, Ph.D., Department of Medicine, Michigan State University Medical Center, 426 E. Kalamazoo St., East Lansing, MI 48823. Equal Employment Opportunity/Affirmative Action Employer.

**LONGWOOD COLLEGE**

**CELLULAR/MOLECULAR GENETICIST**—The Department of Natural Sciences is accepting applications for a tenure-track assistant professor position to begin August 1993. Ph.D., teaching assistant experience, and background in biochemistry preferred. Teaching at the undergraduate level is the primary focus. Duties include courses in genetics and ethics for majors and in human genetics for nonmajors, together with a general education course in biology and a science seminar course possible. Some research opportunities available. Send letter of application, curriculum vitae, telephone number, and three letters of recommendation to: Dr. Wayne M. Stiles, Department of Biology, Longwood College, Farmville, VA 23909. Review of applications will begin April 1, 1993. Minimum qualifications for position include a strong background (including research and teaching) in field-based education. Lead faculty team as they teach courses, an integrated curriculum addressing sustainable development in relationship with conservation, economics, resource management, ecology and culture. Oversee semester programs (30 students each) and seven-month summer opportunities include: supervising faculty, research management, curriculum development, budgets, logistics and creation of goals for new programs. Excellent opportunity for faculty to teach in environmental education, ecology, resource management, planning or international development; relevant teaching/ research experience (preferably in Costa Rica); fluency in Spanish; and ability to work in the field for extended periods under spartan conditions is important. Five years of administrative experience in an equivalent/related position and 3 years of emphasizing curriculum integration and field experience. TO APPLY: Send curriculum vitae, and cover letter explaining qualifications and experiences. Cf: Research Institute, 406 S. SFS, 16 Broadway, Beverly, MA 01915. Deadline: March 30, 1993.

**FIELD DIRECTOR, CENTER FOR SUSTAINABLE DEVELOPMENT—COSTA RICA.** The School for Field Studies, in conjunction with Northeastern University, seeks an associate with a strong background (including research and teaching) in field-based education. Lead faculty team as they teach courses, an integrated curriculum addressing sustainable development in relationship with conservation, economics, resource management, ecology and culture. Oversee semester programs (30 students each) and seven-month summer opportunities include: supervising faculty, research management, curriculum development, budgets, logistics and creation of goals for new programs. Excellent opportunity for faculty to teach in environmental education, ecology, resource management, planning or international development; relevant teaching/ research experience (preferably in Costa Rica); fluency in Spanish; and ability to work in the field for extended periods under spartan conditions is important. Five years of administrative experience in an equivalent/related position and 3 years of emphasizing curriculum integration and field experience. TO APPLY: Send curriculum vitae, and cover letter explaining qualifications and experiences. Cf: Research Institute, 406 S. SFS, 16 Broadway, Beverly, MA 01915. Deadline: March 30, 1993.

**RESEARCH MANAGER—BIOLOGICALS**

Kemin Industries, Inc., a leading manufacturer of animal feed ingredients, has an immediate opening in its Research and Development Department for a Research Manager. The successful candidate will oversee all research, development, and testing on its digestive enzyme additives and edible antimicrobials. The Research Manager will report directly to the Vice President of R&D and will have responsibility for the development of enzyme products to improve the digestibility of animal feeds as well as products to promote feed quality from mold and bacterial contamination (e.g., Salmonella). Major job functions include direction of laboratory personnel, data interpretation and writing, bench laboratory work on particular enzymatic assays. Preference will be shown to those with previous industrial supervisory experience and will be especially those with an agricultural background. Job offer is conditional on passing a medical examination and a drug screen. Smoking is prohibited in all buildings. Kemin Industries is an Equal Employment Opportunity Employer. Please forward your resume to: Mrs. C. R. Nelson, President of Research and Development, Box 70, Des Moines, IA 50301.

**FACULTY POSITION IN GENETICS—DUKE UNIVERSITY MEDICAL CENTER** invites applications for a faculty position in Emotions. The candidate should have a focus on mammalian or human genetics. This appointment can be made at any level. The research environment is excellent and an extremely attractive and generous package of research support is available. Interested individuals should forward curriculum vitae, statement of research plans, and the names of three referees to: Dr. Joseph R. Nevins, Section of Genetics, Howard Hughes Medical Institute, Duke University Medical Center, P.O. Box 3054, Durham, NC 27710. Duke University is an Equal Employment Opportunity/Affirmative Action Employer.
This intensive laboratory and lecture course is limited to 12 graduate students, postdoctoral students, and independent investigators interested in applying diverse experimental approaches (electrophysiology, biophysics, cellular and molecular biology) to the study of the nervous system and development of a single organism. Studying the segmental nervous system and embryo of the leech, participants will master a variety of techniques that can be applied to most other preparations, including vertebrates. Principles of signaling and synaptic transmission are examined using intracellular and extracellular recording to characterize individually identified ganglionic neurons. Results are correlated with animal behaviors and with neuronal morphology as revealed by intracellular staining with fluorescent dyes or HRP. Students will also use patch clamp techniques to study whole cell and single channel transmembrane currents in situ and in isolated neurons in culture. Building on the notion that detailed knowledge of the structure and function of the nervous system constitutes a well-defined endpoint for developmental studies, students will also learn techniques and concepts of modern experimental embryology, including lineage tracing, cell cycle analysis, and the analysis of gene expression by in situ hybridization and immunohistochemical procedures. Directors: Pierre Drapeau, McGill University and David Weisblat, University of California, Berkeley.

Tuition: 1,500.
Partial financial will be available to qualified applicants.
Contact: Doriane Chrysler, Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543. (508) 548-3705, Ext. 401.

Postdoctoral Fellowship
Neuroimmunology

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has a postdoctoral opening for an immunologist available in September, 1993 in the Neuroscience Division of the Pharmacology Department. Postdoctoral scientists work in a new interdisciplinary environment with PARKE-DAVIS scientists in Biotechnology, Biochemistry, Signal Transduction and Pharmacology.

The successful candidate will join a group exploring the role of cytokines in neurodegenerative diseases having a neuroinflammatory component, e.g., Alzheimer's Disease and Multiple Sclerosis. The work will focus on the regulation of the processing enzyme for interleukin 1-B and the effect of inhibiting this enzyme on the neurodegenerative process. The position requires a Ph.D. in cellular and molecular immunology. Previous training in neuroscience is not required.

Interested persons should submit their curriculum vitae and names of references to Human Resources, Box JDM-86, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

The field of pharmaceuticals and health care is more rewarding than ever as new products create a healthier world population. As one of the leaders in this dynamic industry, Pfizer Inc., a Fortune 100 company, is committed to continuing its remarkable growth.

In bringing science to life, our international research-based company uses advanced techniques to generate new products, new areas of revenue and career opportunities that self-directed, talented people will find stimulating and rewarding.

The primary R&D facility of Pfizer Inc is located in a southeastern Connecticut shore community, giving easy access to the well known academic and cultural centers of the Northeast, and offers the attractions of a New England lifestyle.

We are seeking a PhD Scientist with a strong background in Biochemistry or Biochemical Pharmacology to play a key role in discovering lead structures in a variety of therapeutic areas. As a member of our Applied Biotechnology group, you will develop and implement high throughput screens designed to identify chemical entities that modulate molecular targets involved in disease etiology. Expertise in devising enzyme, receptor, ion flux and reporter gene assays is required for the position, and experience in high throughput screening is desirable. Strong communication and interpersonal skills are necessary to function as part of a highly interactive team. Candidates with training in molecular or cell biology with a drug discovery orientation will also be considered.

We offer competitive salaries and a full range of benefits including medical and dental insurance, paid holidays and vacations, educational assistance, savings and investment plans, pension plan, relocation assistance and more.

To learn how you can be part of Pfizer's future, send your resume to: Mr. Kym J. Goddu, Employee Resources Associate, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.

Central Research
Bringing science to life.
POSTDOCTORAL RESEARCH ASSOCIATE

The Department of Biochemistry and Cell Biology announces the availability of a position as postdoctoral research associate in the area of metalloprotein structure and function. Previous experience in one of the following areas: characterization of membrane-bound enzymes; electron transfer proteins; biophysical techniques (especially NMR). Please send the names of three individuals who are willing to provide references on behalf of the applicant.

All information should be sent to: G. Palmer, Department of Biochemistry and Cell Biology, Rice University, P.O. Box 1892, Houston, Texas 77251-1892. Rice University is an Equal Opportunity Employer.

BI REYNOLDS—UNIVERSITY OF NORTH CAROLINA

POSTDOCTORAL PROGRAM IN HUMAN OlfACTiON

Position available immediately to study perceptual, respiratory and electrocortical responses to odors and irritants in normal, anosmic and unilaterally trigeminal-nasalized humans. Send curriculum vitae and names of references to: Dr. Donald W. Warren, UNC Craniofacial Center, CB# 74855, Dental Research Building, Chapel Hill, NC 27599-7485. AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

MEDICAL UNIVERSITY OF SOUTH CAROLINA

POSTDOCTORAL POSITION IN MolecULAR BIOLOGY

Offers programs leading to Ph.D. and M.D./Ph.D. degrees in each of the following fields: Anatomy, Biochemistry, Microbiology/Immunology, Pathology, Pharmacology, Physiology, Biostatistics/Epidemiology, Systems Biology, and Molecular and Cellular Biology. Stipends ($10,000 to $15,000) available to qualified students. Contact: Department of Graduate Studies, MUSC, 171 Ashley Avenue, Charleston, SC 29445.

POSTDOCTORAL POSITION in Genetic Epidemiology of atherosclerosis, diabetes, and hypertension using data on large human and baboon families. Ph.D. in genetic epidemiology or related field required. Send curriculum vitae and the names, addresses and telephone numbers of three references to: Personnel Manager, (311), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, Texas 78228-0147. An Equal Opportunity Employer, M/F/H.

POSTDOCTORAL POSITION in ELECTROPHYSIOLOGY of mechanoreceptors and interneurons with a multidisciplinary group working in the overlapping areas of statistical physics, nonlinear dynamics and neurophysiology, supported by the Office of Naval Research, administered by the Naval Undersea Warfare Center of the Naval Sea Systems Command under contract N00014-87-A-0020. Send curriculum vitae and three letters of reference to: Professor Frank Moss, Department of Physics, University of Missouri at St. Louis, St. Louis, MO 63121.

UNDERGRADUATE TEACHING POSITIONS DEPARTMENT OF BIOLOGICAL SCIENCES COLUMBIA UNIVERSITY

Openings beginning fall semester 1993: (a) one full-time instructor to teach laboratory courses in introductory molecular and cellular biology, developmental biology and physiology. Academic year and summer. (b) two possible positions for part-time instructors to teach courses in introductory molecular and cellular biology, developmental biology and physiology. Academic year and summer. Likely rank will be LECTURER (not tenure-track). Requirements: Ph.D., preferably in areas of cellular biology, genetics and/or biochemistry. Previous teaching experience at both the college and high school levels. A desire to teach at the college level is a plus. Submit curriculum vitae (including telephone number, names and addresses of three references) and arrange for three reference letters. Priority given to applications received by April 15, 1993. Submit to: Lawrence Grossberg, Department of Biological Sciences, Columbia University, New York, NY 10027. Columbia University is an Equal Opportunity/Affirmative Action Employer.
New Biopharmaceuticals Project Leader

You will establish, direct, and implement a program leading to the discovery of novel therapeutics through the use of receptors. The successful candidate will have a substantial post-graduate background in molecular aspects of cell biology, immunology, or pharmacology. Strong managerial and communication skills are required, along with the proven ability to direct a focused research effort. Experience with the development and implementation of modern drug screening assay procedures is essential. File #181

Cell Biologist

You will investigate factors which affect the maintenance of new cell lines to establish novel bioactivity assays. The successful candidate will also establish and operate a cell culture laboratory. A background in mammalian cell transformation and cytokine-receptor signal transduction would be advantageous. File #182

We offer a competitive salary and compensation package including moving expenses and participation in our equity program. We also offer you the opportunity of working in close proximity to the world-class city of Toronto, Canada, one of the fastest growing and most beautiful cities in North America. You are invited to apply, in strictest confidence, by sending your C.V. and the names of three references, quoting the appropriate file number, to: Manager, Human Resources, CANGENE CORPORATION, 3403 American Drive, Mississauga, Ontario L4V 1T4 Canada Fax: (416) 673-5123

Receptor Biochemist

Establishing receptor-ligand binding assays and receptor-specific affinity purification procedures, the successful candidate will have experience with the purification and immobilization of soluble receptors for use in ligand binding assays. A background in the measurement of receptor-to-ligand binding affinities is required. File #183

Protein Engineer

As the successful candidate, you will engineer protein therapeutics using affinity screening methods. Experience with bacteriophage display library screening or a related methodology is required. A background in the interactions of cell-surface receptors with their ligands would be advantageous. File #184

In The Business Of Discovery...

I E

Innovation & Efficiency

Using innovation to improve the efficiency of molecular biology research products has been the cornerstone of Stratagene's development since our founding in 1984. With more than 200 employees and 500 products, Stratagene is now seeking Technical Sales Representatives for the Chicago and Houston areas.

TECHNICAL SALES REPRESENTATIVES

These positions represent a unique opportunity for qualified and experienced individuals to participate in a growing technical sales organization. One position will service the Midwest territory (base location is Chicago area) and the other position will service the South Central territory (base location is Houston area). Both positions are immediately available and other positions will be opening in the near future.

Candidates should have strong practical experience in Molecular Biology or related field. Prior sales experience is beneficial. Sales Representatives will attend an extensive training program at our beautiful coastal location in La Jolla, California.

Stratagene offers an excellent company benefits package, including a 401(K) Plan, and a competitive salary and incentive program. All qualified candidates forward resume of qualifications indicating area of interest to: Stratagene, Attn: Professional Staffing, 11099 N. Torrey Pines Rd., La Jolla, CA 92037. AA/EOE.
Pharmacologists—
Drug Metabolism and Delivery
Requirements include a BS or MS plus experience in vitro and in vivo pharmacology research. Job Code 9317.

Molecular Biologists/Biochemists
BS/MS-level Scientists with a minimum of 2 years’ laboratory experience possessing exceptional technical skills in molecular biology, protein biochemistry, cell biology, or enzymology. Job Code 9314.

Protein Separation Scientists
BS/MS-level Biochemists with 2+ years’ industrial experience in protein purification and characterization for the clinical production of recombinant proteins. GMP experience desired. Job Code 9244.

Our beautiful Torrey Pines location places us in the midst of academic and institutional research excellence, as well as the area’s expanding biotech industry. We offer competitive compensation packages and more importantly, a highly interactive and stimulating scientific environment. For consideration please send a CV and a letter of interest referencing the job code number above to: Corvas International, Inc., Human Resources, 3030 Science Park Road, San Diego, CA 92121. Equal Opportunity Employer.

Gillette Research Institute, a division of The Gillette Company, seeks two entry-level Research Scientists to be involved in research leading to the development of new personal care products for Gillette.

Research Scientists

For one position, candidates must possess a Ph.D. in Biochemistry or Physiology with experience in enzymology or bioanalytical methods. For the other position, candidates must possess a Ph.D. in Chemistry, Biochemistry or Physiology and 1-2 years of academic or industrial experience. A proven record of publications is desirable.

Located in a new facility outside of Washington, D.C., the Institute is located near a wide variety of government, private and academic scientific laboratories. We offer an excellent compensation and benefits package. Qualified candidates should forward a resume to:

Gillette Research Institute
401 Professional Drive
Gaithersburg, MD 20879

An Equal Opportunity Employer

FACULTY POSITIONS
UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER

Immediate opening for a senior tenured or a junior tenure track position in a newly formed interdepartmental Molecular Medicine Program. Rank will be commensurate with ability and experience. The appointment will be in one of the basic science departments. The laboratories for the Program are housed in a new building that contains approximately 80,000 square feet of modern research space. Core facilities for tissue-culture, media preparation, DNA synthesis, protein sequencing and peptide synthesis, fluorescence-activated cell sorting, and transgenic mice are available. The position will be highly competitive with regard to start-up funds, laboratory space, and salary.

The Program seeks an individual of outstanding research potential in the areas of cellular or molecular biology. Potential areas of interest include, but are not limited to, cell and molecular mechanisms of morphogenesis, differentiation, or senescence.

Applicants should send a curriculum vitae, statement of research interests, and three letters of reference to:

Dr. Fredric Fay, Search Committee Chairman
Corvas International, Inc.
3030 Science Park Road
San Diego, CA 92121

An Equal Opportunity/Affirmative Action Employer.

PROFESSOR AND CHAIR
DIVISION OF MEDICINAL CHEMISTRY AND NATURAL PRODUCTS
SCHOOL OF PHARMACY
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

The School of Pharmacy of the University of North Carolina at Chapel Hill (UNC-CH) seeks applications and nominations for the position of Professor and Chair of the Division of Medicinal Chemistry and Natural Products. The successful candidate will provide leadership to enhance and strengthen the undergraduate and graduate teaching and research programs of the Division. Candidates should have a Ph.D. in medicinal or pharmaceutical chemistry or related discipline in the biomedical sciences appropriate to the research and teaching activities of the Division. In addition, an established and current record of extramural funding, administrative and leadership skills, and a commitment to scholarly achievement are required.

The Division of Medicinal Chemistry, one of four divisions in the School of Pharmacy, currently includes 10 tenure-track faculty with 30 graduate and postdoctoral students engaging in M.S. and Ph.D. research programs focusing on neuroscience, cancer chemotherapy, virology, molecular modeling, lipid chemistry, and natural products. The School of Pharmacy is part of the Division of Health Affairs, consisting of the Schools of Medicine, Public Health, Dentistry, and Nursing. The UNC-CH campus is located near Research Triangle Park, which includes several major pharmaceutical and biotechnology companies, with which the School maintains close affiliations.

The Search Committee will continue to receive nominations and applications until the individual is identified. Applications should contain a brief statement of research and academic objectives, a curriculum vitae, and names of three references. Applications and nominations should be addressed to:

Richard G. Hiskey, Ph.D.
Chair, Search Committee for Medicinal Chemistry Chairperson
School of Pharmacy, CB #7360
University of North Carolina
Chapel Hill, NC 27599-7360

The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.
Protein Data Bank Senior Project Manager

Brookhaven National Laboratory (BNL) is seeking to fill the position of Senior Project Manager of the Protein Data Bank (PDB). The PDB, located in the BNL Chemistry Department, is a unique international database resource for 3-D structures of biological macromolecules. The PDB Senior Project Manager will have broad responsibilities including supervision of the acquisition, storage and dissemination of information between the database and its diverse scientific and technical user communities. He or she will also serve as a spokesperson to the scientific community for the PDB.

The Senior Project Manager will hold a Scientific Staff Appointment at a level commensurate with his or her experience and qualifications. The individual selected should have a strong background in structural biology/biochemistry with broad knowledge of database technologies and the use of databases for the storage of complex 3-D molecular structure data. TheSenior Project Manager should also be interested in the scientific usage of the information in the PDB database and will be expected to provide intellectual leadership, to have an informed vision of the PDB’s future goals, and to assist in forging close links with PDB collaborators.

Nominations should be submitted as soon as possible, and applicants should send a curriculum vitae and the names of three references by June 1, 1993, to: Chairman, PDB Search Committee, Chemistry Department, Brookhaven National Laboratory, Upton, Long Island, New York 11973. Equal Opportunity Employer M/F/D/V.

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ASSOCIATED UNIVERSITIES, INC.
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Biology & Biomedical Sciences

Graduate and postdoctoral training opportunities in...

Immunobiology

Paul Allen - Processing and presentation of self-antigens and tolerance relationships.
John Atkinson - Biology of the complement system.
Eric Brown - Leukocyte signal transduction.
David Chaplin - Linkage of HLA and human disease.
Harvey Colton - Molecular regulation and genetic deficiencies of complement.
Ted Hansen - Molecular and cellular studies of the immune system.
Stan Korsmeyer - Proto-oncogenes in lymphocyte development and malignancy.
Osmari Kassambara - Immunopathology of T cell activation.
Dennis Loh - T cell development and cell death.
Marion Peters - Immuno-regulation of T and B lymphocytes in the gut.
Robert Schreiber - Interferon-γ and tumor necrosis factor.
Matt Thomas - Cellular regulation by protein tyrosine phosphatases; lymphocyte activation.
Emil Umashe - Antigen processing and presentations.

For additional information please write to: Division of Biology and Biomedical Sciences, Department MJ, Campus Box 8225, 600 S. Euclid Ave., St. Louis, MO 63110-1093.

Geron Corporation is pioneering new approaches to treat age-related degenerative diseases and cancer. Our advances in cellular and molecular gerontology will allow us to develop entirely new categories of therapeutics.

Join us as we capture the opportunities presented by this breakthrough science. We are seeking talented individuals in the following positions:

- Director, Molecular Biology
- Senior Scientist
- Scientist
- Research Associate

We seek experience in the following techniques: cell biology and tissue culture of primary cells; cDNA cloning and expression; protein purification and sequencing; assay development and drug candidate screening; nucleotide and oligonucleotide chemistry; endocrinology. A related degree is essential.

Take advantage of this exceptional opportunity to be at the forefront of the industry and engage some of the most challenging problems facing modern biology. Our innovative company offers a competitive salary, benefits and stock incentive program. Send your curriculum vitae, indicating position of interest to: Geron, Human Resources, Dept. 50312, 200 Constitution Drive, Menlo Park, CA 94025. Equal Opportunity Employer.

TEMPLE UNIVERSITY
SCHOOL OF MEDICINE

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 a major expansion. We are particularly interested in molecular immunologists or cellular immunologists employing contemporary molecular biology approaches. 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 at present consists of 18 full-time faculty members that are supported by extensive peer-reviewed funding and several joint appointees. The Department has an extremely strong graduate program providing students with advanced training in molecular microbiology and immunology. Interactions are encouraged with other basic and clinical departments and both 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 names and addresses of four references to: Chris D. Platsacos, 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.
POSTDOCTORAL POSITION. Available immediately to study signal transduction mechanisms during aging, and regulation of bone signaling pathways by cytokines. Experience in adenosine A2C and phosphatidylinositol turnover pathways, cell and molecular biology desired. Send curriculum vitae and names of three references to: Dr. C. Bucana, Division of Biological Sciences, Southwestern Methodist University, Dallas, TX 75275. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITIONS Duke University Medical Center

Postdoctoral research positions (Ph.D. or M.D.) are available in cell biology. Emphasis is on techniques that will assess cell function and responses in vivo. Projects involve the role of antioxidants and oxidants in airway inflammation and reactive airway disease. Send curriculum vitae and names of three references to: Dr. J. Minter, Box 215, L. Murphy Veterans Hospital, 7400 Merton Minter Boulevard, San Antonio, TX 78284. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS

POSTGRADUATE POSITIONS

Two postdoctoral positions in biomedical imaging at national laboratories including those of the Department of Energy and the Environmental Protection Agency. Must have recent graduate degree. U.S. citizenship may be required for some laboratories. For application material: Postgraduate Research Program, Science/Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: (615) 576-3456.

TWO POSTDOCTORAL POSITIONS

In Macromolecular Crystallography

Cytotoxicity

Project

POSTDOCTORAL POSITION.

Position available immediately to study regulation of penicillin-binding proteins in Barillas subtilis. Experience in microbiology and molecular biology required. Send curriculum vitae and names of three references to: Dr. C. Bucana, Division of Biological Sciences, Southwestern Methodist University, Dallas, TX 75275. Equal Opportunity/Affirmative Action Employer.

RESEARCH POSITION.

A POSTDOCTORAL POSITION is available immediately to study the cellular and molecular basis of retinal degeneration in a model of retinitis pigmentosa with emphasis on induction and cellular differentiation. Experience in molecular biology, protein chemistry and monoclonal antibody technology preferred.

RESEARCH POSITION.

A POSTDOCTORAL POSITION is available immediately to study the electrophysiological properties of retinal neurons in vivo. Prior experience in electrophysiology desired. Send curriculum vitae, summary of relevant experience, representative publications and the names of three references to: Dr. Peter R. Macey, Ph.D., Professor and Director of Research, The Margaret M. Dyson Vision Research Institute, Department of Ophthalmology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021.

POSITIONS OPEN

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CLINICAL CHEMISTRY POSTDOCTORAL FELLOWSHIPS at Mayo Clinic. Seeking applicants for two-year-plus fellowship projects toward specialized training in clinical chemistry. Applicants must have a Ph.D. or M.D. degree or equivalent. Send curriculum vitae, names of three references, and recent publications to: Dr. Peter R. Macey, Ph.D., Professor and Director of Research, The Margaret M. Dyson Vision Research Institute, Department of Ophthalmology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021.

POSITIONS OPEN

POSITIONS OPEN

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study the molecular basis of virus-host cell interactions. Nucleic acid metabolism and/or virus biology, with emphasis on the mechanism of virus-induced cell fusion. Candidates with a strong background in molecular biology or virology are preferred. Send curriculum vitae and names of three references to: Dr. Anne Moscona, Departments of Cell Biology/Anatomy and Pediatrics, Box 1198, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

PHARMACOLOGY/PHYSIOLOGY

POSITIONS OPEN

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to join a multidisciplinary drug discovery group. Research involves indirect binding of active sites of proteins kinases by studying the ability of synthetic peptides to act as inhibitors and/or substrates. Experience with enzymes and an interest in structure-function relationships required. Salary dependent upon experience. Excellent fringe benefits. Send curriculum vitae and references to: Ray Budde, Department of Neurochemistry, Box 100, University of Texas M. D. Anderson Cancer Center, 1518 Holcombe Boulevard, Houston, TX 77030. Equal Opportunity/Affirmative Action Employer. Smoke-free environment.

Laboratory of Retrovirus Research, Division of Virology, CRER, FDA (on NIH campus): STAFF FELLOW (Postdoctoral) or SENIOR STAFF FEL- LOW positions to study molecular aspects of HIV-1 viral-cell interactions, and anti-HIV immunity and vaccine development. Applicants with Ph.D. or M.D. degrees and experience in the areas of molecular immunology or molecular Virology of HIV infections, send applications to: Dr. Hans Golding, Chief, Laboratory of Retrovirus Research, CRER, FDA, Building 29A Room 2C22, 8800 Rockville Pike, Bethesda, MD 20892. Telephone: 301-496-2426. FAX: 301-496-1810.

POSTDOCTORAL FELLOWSHIP: A position is available immediately for a postdoctoral fellow to participate in studies using in situ hybridization to explore human vascular disease. The goal of these studies is to define factor(s) synthesized locally in the vessel wall which contribute to inflammation, thrombosis, smooth muscle differentiation and/or proliferation in atherosclerosis and post-angioplasty restenosis. Previous experience in molecular biology, pathology, and/or cell biology is desirable. Send curriculum vitae, names of three references to: Dr. Joseph N. Wilcox, Drawer AJ, Department of Medicine, Emory University, Atlanta, GA 30322. We are an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS

Fellowships available to residents of North America with Ph.D. or M.D., or comparable degree and less than one year of postdoctoral laboratory experience by application date for beginning training in basic biomedical research. The three-year award consists of a stipend of $25,000 per year for each of the three years; $1,000 per annum research allowance; travel to fellowship location; annual meeting. Application deadline August 15, 1993; fellows activate following July. For application form, write or telephone: The Helen Hay Whitney Foundation, 450 East 63rd Street, New York, NY 10021. Telephone: 212-751-8228, or FAX: 212-688-6794.

POSTDOCTORAL FELLOWSHIP—Neuroscience/Pharmacology: A position is available immediately for a postdoctoral fellow to perform experiments on mammalian brain. The laboratory uses studies using selective breeding methods for developing mouse lines that are sensitive to barbiturates. The project includes correlation of behavioral changes with the activation of the CNS through the specific behavioral characteristics involved. Previous experience in analytical, molecular biological, and/or behavioral measures is preferred. Please send curriculum vitae and names of three references to: Carlson K. Erickson, Ph.D., College of Pharmacy, Institute for Neuroscience, University of Texas, Austin, TX 78712-0774.
**Challenging Chemist Opportunities**

LIGAND Pharmaceuticals, an acknowledged leader in the field of intracellular receptor technology, seeks to provide novel drugs for the treatment of human disease. We employ state-of-the-art drug design techniques, classical pharmacology, and cutting-edge molecular biology in an integrated approach to drug discovery. We are seeking to add the following Chemists to our talented team of professionals.

**PhD Chemists** with 2-5 years' industrial experience in organic synthesis, bio-organic or medicinal chemistry and an aptitude for the design and synthesis of biologically active molecules. Creativity, a commitment to excellence and the desire to work in a multidisciplinary environment are essential qualities for these positions.

**BS and MS Chemists** with 1-2 years' industrial experience in organic synthesis and experience in chromatographic and spectroscopic techniques (HPLC, NMR). The successful candidate will work with a team of Chemists and will be responsible for the synthesis, isolation, and structure elucidation of novel organic compounds for biological evaluation.

LIGAND provides an exciting intellectual environment with modern research facilities. We offer competitive salaries commensurate with your experience and education, a comprehensive benefits package, equity participation and ample opportunities to have scientific impact.

Please forward your c.v. to:
LIGAND Pharmaceuticals, Human Resources, Dept. 760/AN, 9393 Towne Centre Drive, San Diego, CA 92121.

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**Exciting Research Opportunities**

ALKERMES, INC. is a neuropharmaceutical company developing products for the treatment of diseases of the central nervous system. With a talented team of top-tier scientists and collaborators, Alkermes is making significant advances in neuropharmaceutical research.

**RESEARCH SCIENTIST**

**Protein Chemistry**

Continued expansion of peptide-based programs has created the opportunity for a research scientist in peptide chemistry to participate in the development of controlled-release delivery systems for protein and peptide drug entities. Responsibilities include physical/chemical characterization of proteins with regard to stability and bioavailability in polymeric matrices. This position requires a Ph.D. with 1-2 years experience in Protein Chemistry, Biochemistry, or a related field and research experience in analytical biochemistry and protein characterization. Knowledge of areas of protein formulation and/or stability and stabilization of proteins is preferred. *Reply to Box WA.*

**RESEARCH SCIENTIST**

**Cell Biology**

To design and implement cell-based models for testing novel therapeutics and drug delivery strategies. Requires a Ph.D. in Biochemistry, Cell Biology or equivalent and at least 2 years postdoctoral experience, including work with mammalian cell cultures. Expertise in one or more of the following would be advantageous: growth and differentiation factors, inflammation research, receptor binding and signaling processes, and transcytotic transport mechanisms. *Reply to Box DK/CB.*

For consideration, please send your C.V., including references, in confidence to: Alkermes, Inc., 64 Sidney Street, Box 1136, Cambridge, MA 02139-4136 An Equal Opportunity Employer.
Adhesion Scientist
Immunopathology

PARK-V-DAVIS Pharmaceutical Research Division has an excellent research opportunity for an entry-level Ph.D. scientist in the area of cell adhesion. The position is located in the Department of Immunopathology at our facility in Ann Arbor, Michigan.

Research will focus on mechanistic studies of T cell adhesion and activation with particular emphasis on characterizing intracellular signaling pathways. Applicants should have expertise in one of the following areas: adhesion molecules, lymphocyte activation and function, and/or signal transduction. Applicants with experience in molecular biology or flow cytometry are encouraged to apply. The successful candidate will play a key role in a wide ranging, interdepartmental research program that involves collaborators in various departments within PARKE-DAVIS and at several universities, including the adjacent University of Michigan.

Requirements for this position include a Ph.D. in immunology or biochemistry and up to three years of postdoctoral training. Documentation of accomplishments via publication in peer-reviewed journals and excellent communication skills are required.

PARKE-DAVIS offers an excellent compensation program and comprehensive benefits package. Qualified applicants should submit their curriculum vitae, a brief summary of their research interests, and a list of three references, in confidence to Box JDM-92274, Human Resources, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

PARK-E-DAVIS
People Who Care

"Equal Opportunity in Action"

PENNSTATE

12th Summer Symposium in Molecular Biology
July 28–30, 1993
University Park, PA

"THE STRUCTURE/FUNCTION RELATIONSHIPS IN PROTEINS AND ENZYMES"

Thomas J. Watson, Jr. Lecture In Molecular Biology
Gregory Petsko Brandeis Univ

Structure and Dynamics of Apomyoglobin
William Jorgensen Yale Univ
Juliette Leconte Penn State
Stephen Sligar Univ of Illinois
Peter Wright Scripps Institute

Role of Proteins in Regulation and Control
Jeremy Berg Johns Hopkins
Rachel Klevit Univ of Washington
John Kuriyan Rockefeller Univ
Eric Olson Univ of Texas

Metals in Enzymes: Structural and Functional Roles
David Christianson Univ of Pennsylvania
Gregory Farber Penn State Univ
Carol Frieke Duke Univ
Kenneth Merz, Jr. Penn State Univ

Molecular Recognition in Signal Transduction Pathways
Ulrich Hartl Sloan-Kettering Inst
Anthony Kossiakoff Genentech
George Lorimer du Pont
Linda Randall Washington State Univ

University sponsors: Biotechnology Institute, Eberly College of Science, Research and Graduate School, Dept of Biology, Biological Chemistry, Chemical Engineering, Chemistry, Entomology, Microbiology/Immunology, Molecular/Cell Biology, Plant Pathology, and Veterinary Science; Industry sponsors: Schering-Plough, AMGEN, CIBA-GEIGY, Pfizer, Supelco, Bristol-Myers Squibb, SmithKline Beecham, and Merck Research Labs

Symposium Director: Kamal Rashid Symposium Chair: C. Robert Matthews Contact: Pat Phillips, Penn State Biotechnology Institute, 519C Wartik Lab, University Park, PA 16802, 814-863-3650. Posters/abstracts due 5/28/93.

Assistant Research Professor (Rank II)
Desert Research Institute
Energy and Environmental Engineering Center
Reno, NV

Duties include the development of sampling, analytical and data analysis methods for organic atmospheric pollutants; participation in field measurement programs; microcomputer-based analysis of air quality and meteorological data; written preparation of journal articles, reports and research proposals; presentations before professional societies and sponsoring agencies; and teaching of courses in atmospheric and analytical chemistry.

Requires recent doctoral degree in Environmental Science and/or Chemistry from a recognized academic program. Air pollution research experience in field monitoring, laboratory analysis, data processing, and data analysis with an emphasis on GC/MS/FID applications. Demonstrable high skills in written and oral communications and in college-level teaching are essential. A record of previous publications and presentations, and successful proposal preparation is desirable.

Salary is competitive. The Desert Research Institute offers an excellent benefits package. Review of applications begins April 28, 1993. The position will remain open until a suitable applicant is identified. Position is located in Reno, Nevada.

Submit curriculum vitae, letter of application and names, addresses and telephone numbers of three references to: Recruitment Office, Desert Research Institute, University & Community College System of Nevada, P.O. Box 19040, Las Vegas, NV 89132-0040. AA/EOE

Plant Molecular Biologists
ICI Seeds Inc. in Slater, Iowa is seeking two individuals with an interest in the application of molecular biology techniques to crop improvement. These positions are funded for three years as part of a collaborative project between US-AID, Michigan State University, ICI Seeds and the Central Research Institute for Food Crops in Indonesia. A primary objective of the project is the generation of insect-resistant corn genotypes, suitable for commercialization in Indonesia.

The successful candidates will join a team of three Indonesian postdoctoral scientists. This team will be based at the ICI Seeds Research Center near Ames, Iowa, and will interact with researchers who are engaged in applying state-of-the-art cell and molecular biology to crop improvement programs. Travel to Indonesia will be required. One position is for a postdoctoral scientist to serve as team leader. The other position is for a researcher with a BS/MS in Plant Sciences and interest in plant transformation who will report to the team leader. Please send a letter of interest which expresses your goals, background and experience; a resume; and three letters of reference to Dr. Martin Wilson, Cell Biology Project Leader, Research Department, ICI Seeds Inc., Hwy 210 West, Box 500, Slater, Iowa 50244, USA.

ICI Seeds
Quality and Innovation
For Those Who Feed The World

An Equal Opportunity Employer
The Food and Drug Administration's Center for Drug Evaluation and Research (CDER) will be recruiting for Chemists at the American Chemical Society Employment Clearinghouse being held March 28 through April 2, 1993 at the Colorado Convention Center. Chemists at CDER serve on a multidisciplinary team of scientific professionals and perform such duties as review and evaluate new drug applications dealing with chemical components; evaluate the adequacy of the methods, facilities, and controls used for the manufacture of drugs, review proposed labels, summarize findings and make recommendations for approval or non-approval of the applications. The Center for Biologies Evaluation and Research (CBER) is also recruiting for chemists or scientists in related disciplines to participate in the development and approval process for biological products. CBER chemists also serve as reviewers on multidisciplinary scientific teams. Some positions offer the unique opportunity to conduct biomedical research in combination with review responsibilities. These positions have a high degree of independence and involve complex scientific and regulatory issues.

**QUALIFICATIONS:** These positions require specific course work in the field of study and professional experience or directly related postgraduate education. Experience in the development, manufacture or testing of drugs and/or antibiotics is desired.

Candidates for Civil Service or Commissioned Corps appointments must be U.S. citizens. Candidates for Staff Fellowships may be either U.S. citizens or resident aliens eligible for citizenship within four years.

**SALARY:** Civil Service salary range for GS-12 through GS-13 is $40,298 - $62,293. Salary, benefits, and level of responsibility are commensurate with education and experience. Positions may also be filled by appointment in the U.S. Public Health Service, Commissioned Corps with commensurate salary and benefits.

**HOW TO APPLY:** If you are interested in either position, submit detailed Curriculum Vitae or Application for Federal Employment (SF-171) and a copy of college transcripts to:

**DHHS/PHS/Food and Drug Administration**

Center for Drug Evaluation and Research
5600 Fishers Lane
Room 6B-05; HFD-20
Rockville, MD 20857
Attn: Rhonda S. Alderman

Center for Biologics Evaluation and Research
1401 Rockville Pike
Suite 200N; HFM-1
Rockville, MD 20852-1448
Attn: Dorothy Boyer (CHEM)

*FDA is an equal opportunity employer and has a smoke free workplace.*
JOINT GRADUATE PROGRAM IN TOXICOLOGY, RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY AND THE UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY: WOOD JOHNSON MEDICAL SCHOOL. We are engaged in a national search for POSTDOCTORAL FELLOWS who are interested in toxicology. Training will provide opportunities for you to do research in carcinogenesis, mutagenesis, teratogenesis, toxicity of solvents and metals, biochemical mechanisms of toxicity, environmental toxicology, toxicology of the nervous system, immune system, liver, bone marrow and skin, metabolism of chemicals and the application of molecular biological techniques. Funding will be available for three years. The results of basic toxicological research with modern approaches to risk assessment. The Program is based in the newly formed Environmental and Occupational Health Sciences Institute, which is devoted to studies covering a broad range of environmental issues. For complete information please send your resume to: Dr. Robert Snyder, Director, Joint Graduate Program in Toxicology, Environmental and Occupational Health Sciences Institute, 681 Frelinghuysen Road, Piscataway, NJ 08855-1179, or call (908) 932-0215.

POSTDOCTORAL FELLOW/TOXICOLOGY We seek a Ph.D. in chemistry, biochemistry or related field who desires training in Biochemical/Environmental Toxicology in an active, growing multidisciplinary toxicology program. The project consists of characterizing xenobiotics and DNA adducts of xenobiotics by standard methods and "2'-post-labeling. Experience in organic synthesis is highly desirable. Please send curriculum vitae, and arrange for three letters of recommendation to be sent by April 30, 1993, to: Dr. Larry W. Robertson, Graduate Center for Toxicology, 206 Forbes Building, University of Kentucky, Lexington, KY 40506-0054, FAX: (606) 258-1059. Salary is $19,000 to $27,000 depending on qualifications and experience. This NIH-sponsored training grant is open to U.S. citizens and permanent residents. The University of Kentucky is an Equal Opportunity University.

POSTDOCTORAL RESEARCH ASSOCIATE, OR RESEARCH ASSISTANT PROFESSOR positions are available to work on: (1) the molecular cloning and identification of tumor-specific antigens in human malignant melanomas or ovarian carcinomas; (2) isolation and characterization of tumor-specific peptides; (3) molecular characterization of T-cell antigen receptor genes in tumor immunology and tumor immune diseases. Experience in molecular cloning and expression systems, methods of peptide purification and/or immunobiology of human T cells is needed. Positions are available in the Department of Immunology, University of Kentucky, Lexington, KY. Interested candidates should send curriculum vitae, bibliography, and names and addresses of three references to: C. D. Fitch, 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.

POSTDOCTORAL RESEARCH ASSOCIATE, Brookhaven National Laboratory. The Biology Department has a position available for a recent Ph.D. with a background in molecular immunology, virology, and genetics, biochemistry and microbiology. Experience with microbiological methods is desirable. The individual will participate in a research program to (1) investigate the regulation of genetic expression of restriction enzyme systems and biochemical characteristics of DNA viruses; (2) characterize and nucleotide sequence and genetic transformation; and including structural studies of the interaction of these proteins with DNA; or (2) study DNA mismatch repair in Streptococcus pneumoniae and other organisms, and related processes of mutagenesis, recombination and genetic transformation. Candidates may apply by sending curriculum vitae, publication list, and three letters of reference to: Dr. Sanford A. Lacks, Biology Department, Building 463, Brookhaven National Laboratory, Associated Universities, Inc., Upton, NY 11973. Equal Opportunity Employer, M/F/D/V.

POSTDOCTORAL ASSOCIATE POSITION available immediately. Preference will be given to an experienced electrophysiologist to work on retinal slices using whole-cell recording techniques, studying glutamate receptor-mediated currents in Xenopus laevis retinal ganglion cells. A brief statement of research interest and experience and the names and telephone numbers of three references to: Donald J. Reis, M.D., Division of Neurobiology, Cornell University Medical College, 111 East 70th Street, New York, NY 10021. Equal Employment Opportunity/Affirmative Action/Stmt/M/F/H/V.

RESEARCH ASSOCIATE to conduct independent research in the area of liposome delivery systems and pharmacology of new drugs. Please send curriculum vitae to: Donald J. Reis, M.D., Division of Neurobiology, Cornell University Medical College, 111 East 70th Street, New York, NY 10021. Equal Employment Opportunity/Affirmative Action/Stmt/M/F/H/V.

RESEARCH ASSOCIATE/POSTDOCTORAL ASSOCIATE/INSTRUCTOR with background in biochemistry, pharmacology, or cell biology to study neurotransmitter interactions with signal transduction/growth regulatory pathways. Please send curriculum vitae to: Donald J. Reis, M.D., Division of Neurobiology, Cornell University Medical College, 111 East 70th Street, New York, NY 10021. Equal Employment Opportunity/Affirmative Action/Stmt/M/F/H/V.

RESEARCH ASSOCIATE/POSTDOCTORAL ASSOCIATE/INSTRUCTOR with background in biochemistry, pharmacology, or cell biology to study neurotransmitter interactions with signal transduction/growth regulatory pathways. Please send curriculum vitae to: Donald J. Reis, M.D., Division of Neurobiology, Cornell University Medical College, 111 East 70th Street, New York, NY 10021. Equal Employment Opportunity/Affirmative Action/Stmt/M/F/H/V.

POSTDOCTORAL RESEARCH ASSOCIATE position is available for a recent Ph.D. graduate to study molecular interactions in the mammalian brain. Research interests include cloning, directed mutagenesis, and in vivo studies to include design, performance, and evaluation of cytotoxicity, cellular pharmacology, and assessment of mechanism of action of new anticancer agents, and in vivo studies to include design, performance, and evaluation of antitumor activity, toxicity, pharmacokinetics and drug metabolism. Master's in Pharmacology with 4 years of experience to include research in pharmacology of anticancer drugs and evidence for 5 publications in peer-reviewed journal (at least 3, first authored) in the area of pharmacology of anticancer drugs. Salary: $30,000 annual salary; 40 hours per week. Apply to the Texas Employment Commission, Houston, TX or by sending resume to: Personnel Commission, TBC Building, Austin, TX 78778, I.D. #673525. Ad Paid by an Equal Employment Opportunity Employer.

COLUMBIA UNIVERSITY ASSOCIATE RESEARCH SCIENTIST POSITION IN HUMAN MOLECULAR GENETICS Applications are invited for an Associate Research Scientist to join our group working on the development of a method for identification of transcribed sequences in genomic DNA and its application to gene mapping using human chromosome 13. The post is available immediately. Applicant must have a strong background in molecular biology and Ph.D. in related area. Experience in cDNA selection techniques, library construction and DNA sequencing techniques. Position is funded for a period of 3 years. Salary and fringe benefits are excellent. Equal Opportunity/Affirmative Action Employer.

Please address inquiries plus curriculum vitae and letters of recommendation to: Dr. Marcelo Bento Soares, Department of Psychiatry, Columbia University, 730 West 168th Street, Unit #41, New York, NY 10032.

Cooperative Extension ASSISTANT/ASSOCIATE/FULL SPECIALIST (CE) and ASSISTANT/ASSOCIATE/FULL ENOLOGIST/FERMENTATION SCIENTIST in the Agricultural Experiment Station (AES). Applications are invited for an 11-month position available July 1, 1993. The appointee is expected to carry out a program of CE education and applied research in wine making or fermentation science relevant to her/his area of expertise, to have a commitment to both the extension and applied research aspects of the position, to develop a strong and highly visible statewide program to extend relevant information to winery and fermentation industry personnel, wine industry suppliers and the public as needed, and will be expected to interact with members of allied departments. Sensitivity to affirmative action and performance in furthering its policy are required. Requires a Ph.D. in biochemistry, Chemical Engineering, Chemistry, Food Science, Microbiology, or a related field. Extension and/or postdoctoral research experience is desirable. Send curriculum vitae, publication list, extension and research publications, graduate transcripts, a statement of research, extension, and teaching interests, and the names and addresses of three references to May M. Rogers, AES Chair, Department of Viticulture and Enology, University of California, Davis, CA 95616-8749, Telephone: (209) 769-1137. The University of California is an Equal Opportunity/Affirmative Action Employer.

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
INSTITUTE OF NEUROLOGY
QUEEN SQUARE
(University of London)
Queen Square, London WC1N 3BG

SOBEL CHAIR OF NEUROPHYSIOLOGY

The Institute of Neurology seeks a successor to Professor T A Sears, who retires on 30th September 1993, for the established University Chair of Neurophysiology. The Institute is a member of the British Postgraduate Medical Federation of the University of London and, with its associated special hospital, the National Hospital for Neurology and Neurosurgery, has an international reputation for basic and applied research in the Neurosciences.

Applications for the Chair are now invited from scientists (medical or non-medical) with proven achievements in research in the general field of Neurophysiology. Further particulars of the post may be obtained from the Dean's office at the above address (fax: 071-278 5069), or by telephone to the Dean, Professor D N Landon (071-837 3611, ext. 4148), to whom applications (10 copies, with a full curriculum vitae, list of publications and the names of 3 referees) should be sent by Friday, April 30th 1993.

VISION RESEARCH AT THE New England Eye Center Tufts University School of Medicine

The New England Eye Center is a multi-discipline research and clinical department, based at the New England Medical Center. The Center is recruiting investigators to work in our fully equipped, state-of-the-art Vision Science Laboratories. These newly constructed facilities include 14,000 square feet at the New England Medical Center and Tufts University School of Medicine campus in Boston.

Many full-time faculty positions are available at the levels of ASSISTANT, ASSOCIATE or FULL PROFESSOR. All positions require a Ph.D. or M.D. Research support guarantees and joint appointments with basic science departments may be arranged. Current independent funding is highly desirable and established investigators will have priority. All candidates must demonstrate an interest in collaborative research at the basic and clinical level; interaction with other laboratories on the New England Eye Center is encouraged and expected. Previous experience in vision research is not necessary. Salary and benefits are highly competitive.

MOLECULAR BIOLOGISTS: Experience is required in molecular cloning, sequencing, and expression. Opportunities exist for collaborations in tumor biology, immunology, virology, and many areas of cell biology. The laboratories are fully equipped for molecular biology research including DNA synthesizer and sequencer, and abundant ancillary equipment.

CELL BIOLOGISTS: Research expertise in cell biology and biochemistry is necessary. Joint appointments in Biochemistry, Immunology, or Anatomy may be arranged. Candidates may wish to join ongoing programs in wound healing, adhesion molecule expression and regulation, and laser-tissue interaction.

IMMUNOLOGISTS: Individuals with interests in cellular or molecular immunology are encouraged to apply. A candidate may either wish to collaborate on current projects investigating autoimmunity, regulation of cytokine and receptor expression, antigen presentation, and viral immunity, or develop an independent research program.

PHARMACOLOGISTS/PHYSIOLOGISTS: The New England Eye Center wishes to expand its research program in physiology and drug development. Candidates with an interest in regulation of angiogenesis, blood and aqueous humor dynamics, cataractogenesis, and macular degeneration are encouraged to apply. Other research interests are welcome.

Interested applicants should send a curriculum vitae, cover letter describing research interests, and names and phone numbers of three references to: Michael B. Raitzman, M.D., Director, New England Eye Center, Tufts University School of Medicine, 750 Washington St., Boston, MA 02111.

NATIONAL UNIVERSITY OF SINGAPORE
DEPARTMENT OF BOTANY

Applications are invited for teaching appointments in the Department of Botany.

Candidates should have a Ph.D degree and who are trained in one or more of the following areas in plant sciences: molecular biology, biotechnology, recombinant DNA-technology, gene transfer systems, molecular genetics, biochemistry, physiology, developmental botany, morphogenesis and plant pathatology.

Besides appointments on normal 3-year contracts, visiting appointments for one or two years will also be considered.

Gross annual emoluments range as follows:

Lecturer
S$50,390–64,200
Senior Lecturer
S$58,680–100,310
Associate Professor
S$88,650–122,870

(U$1.00 = S$1.64 approximately)

The commencing salary will depend on the candidate’s qualifications, experience and the level of appointment offered.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance of S$1,000 or S$2,000, subsidised housing, education allowance for up to three children subject to a maximum of S$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees up to a maximum of 60% of their gross annual emoluments in a calendar year.

The Department of Botany is a department in the Faculty of Science. Facilities for teaching and research in the Department are excellent. These include well-equipped research laboratories for plant tissue culture, mycology and plant pathology, molecular biology, ecophysiology, electron microscopy and a herbarium.

All academic staff have access to the following computer and telecommunication resources: an individual microcomputer (an IBM AT-compatible or Apple Mactintosh); an IBM mainframe computer with 16 MIPS of computing power; an NEC SX supercomputer with 650 MLOPS of computing power; departmental laser printers; a wide spectrum of mainframe and microcomputer software; voice-mail. A campus-wide network, which is based on the high speed optical fibre based FDDI technology, links up all the academic staff and student microcomputers, UNIX workstations and provides access to the mainframe computer, the supercomputer, UNIX hosts, the on-library catalogue, CD-ROM databases, Tleinview, Internet and BITNET.

Application forms and further information on terms and conditions of service may be obtained from:

The Director
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511

The Director
North America Office
National University of Singapore
55 East 59th Street
New York, N.Y. 10022, U.S.A.
Tel: (212) 751-0331

Enquiries may also be sent through BITNET to: PERPL @ NUS3090, or through Telefax: (65) 7783948
UNM Department of Neurology has an immediate opening for a RESEARCH ASSOCIATE/STAFF I. This position requires a Ph.D. in a scientific area. Familiarity and experience with tissue culture of neurons and glia cell lines and tissue sections and electron microscopy. Refer to requisition #132-938. Application deadline is April 16, 1993. Apply to: UNM Medical Center Human Resources, North Campus, Building 2, Room 101, Albuquerque, NM 87131. Resume must be accompanied by a cover letter with an original signature. Equal Opportunity Employer.

CLINICAL INVESTIGATORS, MAYO CLINIC/FOUNDATION. Two recently approved additional clinical investigator faculty positions. Candidates should be NIH-funded clinical investigators. This position requires the resources of a clinical research center. Attractive package of salary, benefits and research support provided. A new NIH-funded clinical research center will open later this year. Please send curriculum vitae in confidence to: Hugh C. Smith, M.D., Room 1602W, Mayo Clinic, Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

RESEARCH SCIENTIST
THE OHIO STATE UNIVERSITY COLLEGE OF MEDICINE

The Ohio State University College of Medicine is seeking an outstanding senior scientist. This person must have received national and international recognition as a leader in the field of basic biomedicai research, and currently have a vigorously active research program. This person must be capable of qualifying for an appointment as a tenured professor in one of the academic depart- ments. There will be generous start-up funds and research space, and appropriate academic appointments for associates within the research group may be available. The salary will be highly competitive. Applications from all disciplines will be accepted for review, special preference will be given to applicants who are cancer researchers.

This person will be expected to sustain a major ongoin- g research and training program supported by extramural funds, and to develop new research initiatives. Applicants must also demonstrate an interest in establishing an independent research program, as well as collaborate with multispecialty members of the Strang-Cornell research team.

Salary and rank will be commensurate with experience and qualifications. NIH-funded positions available. Application must include curriculum vitae, statement of research interests, and three letters of recommendation. Send resume and letter of interest to: Dr. D. G. Sklar, Department of Health, University Hospitals, The Ohio State University, Columbus, OH 43210. Applications should be submitted on or before April 15, 1993. The Ohio State University and the College of Medicine are committed to the ideals of Affirmative Action and Equal Employment Opportunity.

SUPervisory health scientist
CENTERS FOR DISEASE CONTROL

The Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia, are currently seeking applicants for two supervisory health scientists, GM-601-14/15, to serve as experts in the evaluation of clinical and public health laboratory standards and practices. The area of responsibility for the first position is to oversee special projects related to clinical laboratory quality improvement such as the development of a laboratory surveillance system. The second position is the collection and evaluation of data on laboratory practices and performance. Applicants must have experience in (1) clinical or public health laboratories, (2) studies and procedures designed to improve the quality of laboratory testing, and (3) designing scientific studies, collecting data and analyzing data. Starting salary for GM-601-14 = $56,627, and GM-601-15 = $60,609 per year and does not require any previous federal work experience.

CDC is an Equal Opportunity Employer and provides a smoke-free work environment.

For additional information and forms, contact the CDC Employment Information Service at (404) 346-3161. Refer to announcements number (1) CST2DE93065 and (2) CST2DE93056.

POLYMER CHEMIST

A rapidly growing elastomer technology company involved in developing and manufacturing polyurethanes and polyurethane products is seeking a polymer chemist to support company and customer sponsored research and development programs. The ideal applicant will be highly motivated and have a B.S. or M.S. in Chem- istry. This applicant must have at least five years of experience in polymer chemistry, with a minimum of two years of experience formulating polyurethane elastomers. Responsibilities will include developing new and unique polyurethane formulations, and conducting laboratory experiments in support of product development activities. Excellent benefits and working conditions. Ideal location near Winchester, Virginia, 75 miles west of Washington, D.C. Must be a U.S. citizen. Please send resume to:

Seaward International, Inc.
3470 Martinsburg Pike
Clear Brook, VA 22624
Attn: David P. Lewis

An Equal Opportunity Employer.

PEDIATRIC GENETICIST—UMDNS—Robert Wood Johnson Medical School, Department of Pediatrics seeks a new faculty member in Pediatric Genetics who combines knowledge of clinical genetics with scholarly activity. Faculty rank commensurate with qualifications. Scholarly activities will be supported. Letters of interest and curriculum vitae with bibliogra- phy should be sent to: David H. Carver, M.D., Professor and Chairman of Pediatrics, UMDNJ-RWJMS, 1 Robert Wood Johnson Place, CN 19, New Brunswick, NJ 08903-0019. UMDNJ, New Jersey's university of the health sciences, is an Affirmative Action/Equal Employment Opportunity Employer, M/F/H/V.

An Equal Opportunity Employer, M/F/H/V.

GENETIC EPIDEMIOLOGIST FOR NATIONAL HIGH RISK REGISTRY. This is a registry of individuals with multiple family members with cancer. Over 15,000 pedigrees are registered. The successful candidate will be responsible for starting research in seeking national and international standards; data for registries; and collecting DNA samples. Applicants must have a Ph.D. and two years or more of relevant postdoctoral experience. University appointment according to appli- cants' eligibility. Send resume to: D. G. Miller, Stratagen Cancer Prevention Center, 420 East 72nd Street, New York, NY 10021.

STOCKTON STATE COLLEGE
ENGINEERING GEOLOGY, One-year appoint- ment. VISITING SPECIALIST in Engineering Geology/Geological Engineering/Geotechnical Engineering. Will teach mineralogy, petrology and other geology courses, as appropriate, and assist in developing an undergraduate engineering geology program. This position requires significant non-academic experience in the broad area of geotechnical engineering. A visiting spe- cialist is required to have international distinction in her/his chosen area. Salary commensurate with experi- ence. Screening begins March 26, 1993. Send letter of application, resume, and letter of recommendation, and evidence of completion of highest degree to: Dr. Barbara Byrne, Dean of Natural Sciences and Math- ematics, Stockton State College, A329, P.O. Box 08240. Stockton is an Equal Opportunity Employer. Women and minorities are encouraged to apply. R303108.

ASSISTANT COLLECTION MANAGERS

ATCC needs 2 individuals seeking career advancement in a world-renowned culture collection of diversified microorganisms.

(1) M.S./Ph.D. or equivalent experience in system- atic mycology and experience in fungi/yeast culture characterization and identification required. Knowl- edge of medical and industrial mycology, fungal phys- iology and genetics, molecular biology, biochemistry and culture collection management systems and tech- niques desirable. Will enlarge and maintain collection of fungi/yeasts; ensure current status and future interna- tional standards; develop method of coding strain data for computers.

(2) M.S./Ph.D. or equivalent experience. Knowl- edge of systematic bacteriology, molecular biology tech- niques and some computer experience in analyzing tax- onomic data. - Will plan, organize, and execute the computerization of ATCC's collections and database of biochemical and molecular methods the world's most comprehensive collection of bacteria. Ensure collection meets current and international standards. Analyze data of bacteria collection.

Send curriculum vitae: ATCC/ACM 12301 Parkview Drive Rockville, MD 20852 Equal Opportunity Employer.
POSTDOCTORAL RESEARCH FELLOW

Neuroscience Pharmacology

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company in Ann Arbor, Michigan seeks a Postdoctoral Research Fellow for a two-year assignment in the Neuroscience Pharmacology unit. In addition to a Ph.D. in Biochemistry/Molecular Pharmacology, the successful candidate will have a basic interest in signal transduction and a background involving molecular biology and biochemistry. Experience in transgenic mouse or embryonic stem cell/homologous recombination techniques for gene knockout experiments is preferred but not essential.

Interested individuals should submit their resume and list of references to Box JDM-80, Human Resources Department, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. Smoke-Free Work Environment

GENE-TRAK

System’s DNA probe-based products are addressing today’s needs for detecting a wide variety of infectious diseases and food-borne pathogens. Join us as we build upon our commitment to the discovery and marketing of innovative DNA probe-based diagnostic systems.

STAFF SCIENTISTS

Positions are available in our research and development groups to explore methods of probe/gene improvement. Areas of interest include: analytical chemistry, magnetic particle chemistry, hybridization kinetics, and the investigation of alternative buffers, detergents, and chaotropes. We require a Ph.D. in biochemistry, molecular biology, or chemistry and two to five years’ postdoctoral or equivalent experience. Strong publication record required.

RESEARCH ASSOCIATES

Several associate positions are available for researchers with a BS degree and two or more years of industrial or research experience. Areas of interest include: DNA hybridization, probe-based assay development, analytical chemistry, DNA synthesis, and HPLC.

GENE-TRAK, located in the Western Suburb of Boston, offers access to the finest technological and scientific resources that you would expect from an industry leader. We provide a premier salary and benefits package including a company matching 401(k) plan. For immediate consideration, please send your CV and salary requirements to: Human Resources, GENE-TRAK Systems Corporation, Dept. S3-93, 31 New York Avenue, Framingham, MA 01701. We are an equal opportunity employer committed to strength through workforce diversity.
UNITED STATES:

RESEARCH SCIENTIST

Saint Francis Campus
Saint Francis Hospital and Medical Center located in Hartford, Connecticut, is seeking candidates to join our Department of Research to establish new programs in cell and molecular biology. Candidates should have completed a doctoral degree in a postdoctoral fellowship and have prior experience in molecular aspects of cell biology. Candidates will be eligible for an appointment at the University of Connecticut School of Medicine. Interested candidates should send resume and references to:

Dr. Ernesto Canalis, Saint Francis Hospital and Medical Center, 114 Woodland St., Hartford, Connecticut 06105-1299, Fax: (203) 548-5415

ENDOWED CHAIR

The Texas A&M University Health Center is seeking nominations or applications for a well-endowed Chair and Professorship established in the Health Science Center. It is anticipated that most of the funds generated by the endowment will be available to support the research programs of the holder of the Chair. Applicants or nominees should have a strong background in chemistry or biochemistry and should have a vigorous research program involving applications of chemistry or biochemistry to medically important problems. Research interactions would be anticipated with one or more of the contiguous basic medical sciences departments (Medical Biochemistry & Genetics, Medical Microbiology & Immunology, Medical Physiology, Medical Pharmacology & Toxicology, Medical Anatomy, and Medical Pathology). Areas of current research in the Health Science Center include bacterial and parasitic pathogenesis, molecular biology, molecular biology, molecular genetics, microcirculation, ocular pharmacology, oncogenes, and the neurosciences. Additional research interactions are encouraged with investigators in other well-regarded Texas A&M University departments, including Chemistry, Biochemistry and Biophysics, Biology, several departments in the College of Veterinary Medicine, and the intercollegiate faculties of Genetics, Cell Biology, Nutrition, and Toxicology.

Applicants should include a curriculum vitae, and the names of three references. Nominations should include a curriculum vitae, if possible. Applications or nominations will be accepted until the position is filled. Applications or nominations should be sent to Dr. Garret Ihler, Search Advisory Committee, Department of Medical Biochemistry & Genetics, Texas A&M University Health Science Center, College Station, TX 77843-1114. Texas A&M University in an Equal Opportunity Affirmative Action Employer/Educator
NEUROIMMUNOLOGY RESEARCH AT UCSF

Postdoctoral positions available to study neuropeptide receptors, peptide processing enzymes and cytokines in normal and inflamed tissues. All positions require a higher degree (Ph.D. or equivalent).

Molecular Biologist: Experience required in standard molecular techniques including cloning, expression and mutagenesis of receptors and proteases.

Cell Physiologist: Experience required in analysis of signal transduction pathways, FACS analysis, microscopy.

Anatomist: Experience required in localization and characterization of neuropeptide receptors/proteases by immunohistochemistry, in situ hybridization, and autoradiography. Experience in electron microscopy and confocal microscopy desirable. Send c. v.'s, representative publications, statement of research interests, and names and addresses of three referees to:

N.W. Bunnett/D.G. Payan, Box 0660, Department of Surgery UCSF, 521 Parnassus Avenue, San Francisco, CA 94143.

THE NATIONAL RESEARCH COUNCIL ANNOUNCES
POSTDOCTORAL & SENIOR RESEARCH ASSOCIATESHIP AWARDS

The awards sponsored by the National Research Council are available at the U.S. Army Institute of Dental Research. The mission of this program is to develop "ready-to-use" products which can be directly implanted in osseous defects to induce bone regeneration in situ. The research opportunities include physiology and biochemistry of bone regeneration with emphasis on the engineering of predictably degrading bone-regenerating systems and the application of polymer chemistry/microencapsulation to the development of time-release delivery systems for bone inductive proteins and growth factors. Doctoral degree in life sciences or biomedical sciences is required. Annual stipend for recent graduates is $32,400 and is appropriately higher for those with more than 5 years of experience. Support for relocation and funds for professional travel are available, and a health insurance program is offered. Awards are for 1 year with possible renewals to a total of 3.

For further information contact:
Dr. Anshumali Chaudhuri at (301) 621-0765 or (410) 677-2279
or Dr. Jeffrey Hollinger at (202) 576-3764.

Their mailing address is:
U.S. Army Institute of Dental Research
Building T-2832
Fort G.G. Meade, MD 20755-5305

Applications must be filed directly with the NRC. For application materials, contact:

NAS NRC
2101 Constitution Avenue, NW
Washington, D.C. 20418
FAX: (202) 334-2759

Applications must be submitted to the NRC by April 15 or August 15

Senior Faculty Position
Molecular Virology
The University of Michigan, Ann Arbor

As a part of the expansion of research and teaching in the area of Virology at The University of Michigan, we are seeking a creative scientist with experience in the study of viruses to fill a senior level, tenure-track position in the Department of Microbiology and Immunology. Our current interests encompass viral entry into cells, oncopgenic transformation, and regulation of gene expression. Although we are particularly interested in senior candidates in these areas, outstanding applicants at any level studying viruses as pathogens or as model systems will be considered. Senior candidates must have a record of a successful independent research program, and junior candidates must be prepared to establish such a program. The appointee will also be expected to participate in the teaching programs for graduate, medical, and dental students.

Applications should include a curriculum vitae, bibliography, a brief statement of research interests, and the names of three individuals familiar with the candidate's research and teaching abilities. Applications should be submitted by May 15, 1993 to: Virology Search Committee, Department of Microbiology and Immunology, The University of Michigan, 5843 Medical Science Building II, Ann Arbor, MI 48109-0820. The University of Michigan is an Equal Opportunity/Affirmative Action Employer and encourages the application of qualified women and minorities.
POSITIONS OPEN

SCIENTISTS/SENIOR SCIENTISTS
LABORATORY SUPERVISORS

Activated Cell Therapy, Inc., a recently formed biotechnology company located near Stanford University, is developing live cell therapy for the treatment of cancer and chronic infections. We are currently recruiting for several positions including:

SCIENTIST/SENIOR SCIENTIST—Supervise cellular immunology group. Experience with generation and analysis of cytotoxic T cells, manipulation and culture of human T cells, flow cytometry, and antigen presentation. Ph.D. or M.D. required.

LAB MANAGER/SUPERVISOR—Experience with separation of lymphocyte subsets, immunostaining and flow cytometry, assays of lymphocyte function and hematopoiesis. Ph.D. and/or medical technician license desirable but not required.

SCIENTIST/TISSUE CULTURE ENGINEER—Experience with mammalian cell culture, including long-term lymphocyte propagation, and hollow fiber or other scale-up techniques.

Activated Cell Therapy offers a competitive salary and benefits package, including stock options. If you enjoy a team-oriented environment and would like to have an impact on the development of a new class of human therapeutics, please send a copy of your résumé and recent salary history to:

Activated Cell Therapy, Inc.
600 Research Park
2730 Sand Hill Road
Menlo Park, CA 94025

An Equal Opportunity Employer.

BIOCHEMIST/BIOLGIST. One-year full-time position begins September 16, 1993, at University of Minnesota, Morris. Duties: teach undergraduate biochemistry and microbiology plus either immunology or another biology course. Research and service activities also expected. Minimum qualifications: ABD in biochemistry/biology and two years of teaching experience. (Graduate teaching experience acceptable.) Strong commitment to undergraduate teaching desired. Ph.D. preferred. Send letter, résumé, transcripts and three reference letters to: Dr. M. Korth, Chair, Division of Science and Math, University of Minnesota, Morris, MN 56267-2128 to arrive by April 16, 1993. The University of Minnesota is an Equal Opportunity Educator and Employer.

RESEARCH SCIENTIST position available to examine geographic patterns of AQUATIC BIODIVERSITY in Virginia. Will use existing data to examine relationships between basin and landscape features and fish and mussel diversity. Ph.D. (or equivalent) in aquatic or landscape ecology, conservation biology, or ichthyology required. Experience with geographic information systems and multivariate statistics desirable. Ability to work independently and publish essential. $25,000 to $28,000 salary for first year. Send curriculum vitae and 3 references by 15 April 1993 to: Paul Angermeier, Department of Fisheries and Wildlife Sciences, Virginia Tech, Blacksburg, VA 24061-0321. An Affirmative Action/Equal Opportunity Educator.

ANNOUNCEMENTS

Utah Genome Technology Workshop
HUMAN GENE MAPPING & SEQUENCING
June 13-26, 1993

- Intensive, hands-on laboratory & computer
- Faculty lectures plus small group direction
- Guest lecturers present current research
- Skills for applying techniques in your own lab

For Graduate Students, Ph.D. or M.D., who need state-of-art research skills and knowledge. 16 students only.

Venue: Technology Workshop
Eccles Institute of Human Genetics
University of Utah, Building 533, Room 6160
Salt Lake City, UT 84112

Phone: 801-585-5606, FAX: 801-581-7796

COURSES AND TRAINING

NINTH ANNUAL
SOMATIC CELL AND
MOLECULAR GENETICS WORKSHOP
July 11-24, 1993

This course provides a combined somatic cell and molecular biology workshop experience, designed to provide an intensive "hands-on" introduction to the methodology and concepts of current molecular biology procedures. The content of this workshop also provides the basic techniques needed for researchers interested in initiating genome mapping studies. Application Deadline: March 31, 1993. A per diem stipend is provided. Applicants should submit a letter describing how the workshop will assist their current research, along with curriculum vitae that lists publications (no abstracts) for the past five years only, to: Peggy J. Woodson, Somatic Cell & Molecular Genetic Workshop, Eleanor Roosevelt Institute, 1899 Gaylord Street, Denver, CO 80206, Telephone: (303) 333-451S. Registration fee: $200. Please DO NOT send registration fee at this time. The Eleanor Roosevelt Institute is an Equal Opportunity/Affirmative Action Institution and invites and encourages applications from women and minorities. Open to U.S. Citizens and Permanent Residents only.

MEETINGS

SECOND INTERNATIONAL CONFERENCE ON ANCIENT DNA
SMITHSONIAN INSTITUTION
October 7-9, 1993, Washington D.C. Focus on the role of museums and natural history collections in ancient DNA research. Registration deadline is May 1, 1993. For more information contact: Ancient DNA Conference Secretary, LMS, Smithsonian, MRC 534, MSC, Washington, DC 20560, Telephone: 301-238-3444. E-mail: oldDNA@onyxsi.si.edu.

FIFTH INTERNATIONAL CONFERENCE ON CRYSTALLIZATION OF BIOLOGICAL MACROMOLECULES
Catamaran Hotel, San Diego, California August 8-15, 1993

Focus: establishing a new emphasis in rational crystallization of macromolecules by integrating molecular biology, biophysics and biochemistry.

MEMBRANE PROTEIN CRYSTALLIZATION WORKSHOP (HARTMUT MICHEL)

Abstract deadline: March 30, 1993. Information from/abstracts to:

Susi George, ICCBM Coordinator
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92039-0654, U.S.A.
FAX: (619) 534-8193
E-Mail: stura@scripps.edu

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