MOLeCULAR-CELLULAR NEUROSCIEntISTS, The Neuroscience Program at the Loeb Research Institute and the Division of Comparative Medicine at the Ottawa Civic Hospital, a University of Ottawa teaching hospital, is seeking 2 qualified candidates, one at the ASsistant Professor or Assistant rank and one at Full Professor or Full rank. Candidates must demonstrate excellence, originality and productivity in molecular and/or cellular neuroscience. You will join a program whose clinical foci in stroke/ischemia and degenerative disorders are being explored by a neuroscience research group (8 Ph.Ds) who use cell and molecular biology and electrophysiology to study cell-cell communication and neural circuitry. Other key areas of the program include transcription, mechanisms of neuron/glia response to ischemia, CNS regulation of hydromineral and cardiovascular homeostasis. Preference will be given to candidates using molecular approaches directed to prospective signal transduction. In accordance with Canadian immigration regulations, this advertisement is directed first, but not solely, to Canadian citizens and permanent residents.

Send curriculum vitae with names of three references and a statement of goals/interests by Septem-
ber 30, 1993, to: Dr. Leo Renaud, Director, Neuro-
yology/Neurosciences, Ottawa Civic Hospital and Loeb Research Institute, 1053 Carling Avenue, Ottawa, Ontario, Canada K1Y 4B9. We support Equal Op-
pportunity and a smoke-free environment.

ASSISTANT PROFESSOR OR VISITING PROFESSOR OF MEDICINAL CHEMISTRY/CHEMO-
Therapy. OBicity is advertising a nine-month, tenure-track position. The position may also be filled by a Visiting Assistant Professor for the 1993-4 academic year. The individual will be responsible for the teaching of appropriate areas of Medicinal Chemistry, Com-
tomotherapy, and/or Biochemistry to undergraduate pharma-
cy students. Individual or collaborative research appropriate to the research mission is also expected. An ABD or Ph.D. in Bio- or Medicinal Chemistry is required. An undergraduate degree in pharmacy is desirable, but not required. The application process begins immediately. Application deadline is July 15, 1993, or until a suitable candidate is identified. Application and inquiries should be sent to: Thomas P. Faulkner, Ph.D., Professor and Chair, Department of Medicinal and Phyto-
chemical Sciences, College of Pharmacy, Ohio Northern Uni-
versity, Ada, OH 45810. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

EVOLUTIONARY BIOLOGIST
Princeton University invites applications for a tenure-
track position in the Department of Ecology and Evolu-
tionary Biology. We anticipate filling the position at the level of Assistant Or Associate Professor. The position is appointment for two years, renewable. We are particularly interested in receiving applications from individuals using modern approaches to study evolutionary mechanisms, either phylogenetic processes of diversification or the genetic basis of microevolution. Applicants should have a commitment to teaching and a well-developed conceptual basis to their research. A statement of research interests, reprints of three publica-
tions and three letters of recommendation should be sent to: Dr. Peter R. Grant, Department of Ecology & Evolutionary Biology, Guyot Hall, Princeton University, Princeton, NJ 08544-1003. The closing date for applications is September 15, 1993. Application is an Affirmative Action/Equal Opportunity Employer.

BIOLOGICAL OCEANOGRAPHER
We seek a Ph.D. marine microbial ecologist for a 9-month, tenure-track position at the ASSISTANT PROFESSOR level, beginning Fall, 1994. The position involves research, teaching at the graduate and undergraduate levels, and service. Applicants may have research interests in microbial ecology of the water column or the benthos. Send a letter describing research interests, curriculum vitae, and the names, addresses and telephone numbers of three references to: Search Com-
mite, Department of Marine Science, Florida State University, Tallahassee, FL 32306. Application review will begin in July 1993 and continue until a suitable candidate is found. The university is an Equal Opportunity/ Affirmative Action Employer.
POSITIONS OPEN

PHYSIOLOGIST ASSISTANT PROFESSOR

The Department of Physiology invites applications from individuals with at least 2 years of postdoctoral experience for a tenure-track position. Cardiovascular research is emphasized but qualified applicants will be considered. Successful candidate will establish an independent research program, seek extramural funding and publish in peer-reviewed literature. Send curriculum vitae, brief description of teaching experience, current research activities, career goals, and names of three references to: Drexel Peterson, Ph.D., Chairman, Department of Physiology, Kirksville College of Osteopathic Medicine (KCOM), Kirksville, MO 63501. KCOM is an Equal Opportunity/Affirmative Action Employer.

PSYCHIATRY/PSYCHOLOGY PH.D. RESEARCHER—ASSISTANT or ASSOCIATE PROFESSOR

The Department of Psychiatry, of University of Michigan Medical School, invites applications for a position at the Assistant or Associate Professor level, with 2 to 5 years of previous academic experience. This individual will play a leadership role in the development of a neuroscience laboratory to conduct human studies of the relationship between stress and depression with course of medical illness. The individual should have experience in basic science laboratory research. Experience in pharmacology research is desirable. The successful candidate will be expected to establish a productive research program and to participate in teaching at the graduate level. Send curriculum vitae and names of three references to: Prof. Robert J. Carver, University of Michigan Medical School, 1540 East Medical Center Drive, Ann Arbor, MI 48109. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF THE VIRGIN ISLANDS

ST. THOMAS

ADMINISTRATIVE DIRECTOR

MARINE SCIENCE CENTER

Candidate should have a doctoral degree and academic credentials and experience appropriate for appointment at the Full Professor level. A strong successful record of internationally recognized, externally funded research is required. Demonstrated experience with program development, management and familiarity with funding agencies and foundations are important. Knowledge of the Caribbean and its marine resources is desirable. The successful appointee will direct and expand the marine science program, seek extramural funding to facilitate research, and increase Caribbean and international stature of the program and resources to support marine science. Applicants with research experience in areas involving some of the following areas are encouraged to apply: corals and their communities, and those who would like to work at the crossing of marine, freshwater, terrestrial and cultural environments. Applications from women and minorities are encouraged. The University of the Virgin Islands is an Affirmative Action/Equal Opportunity Employer.

FACULTY CELL BIOLOGIST

Tenure-track, 12-month ASSISTANT PROFESSOR position available January 1, 1994, for an outstanding animal cell biologist with expertise in cell regulation, cell signaling, or cell differentiation. Responsibilities include establishment of an externally funded research program, teaching each year an undergraduate and an upper-level specialty course in cell or developmental biology, and advising undergraduate and graduate students. Ph.D. required and postdoctoral experience preferred. Submit (a) curriculum vitae, (b) 3 letters of recommendation, (c) up to 3 publications, (d) 1-page statement of how your research addresses important issues in cell biology, and (e) 1-page summary of your teaching, experience, and proposed courses. Send these items by August 15, 1993, to: Dr. D. Z. Benitez, Cell Biology Search Committee, Zoology Department, North Carolina State University, Raleigh, NC 27695–7617. NCSU is an Affirmative Action/Equal Opportunity Employer in the Research Triangle, a desirable environment for scholarly work and year-round cultural and recreational activities.

FACULTY POSITION

ASSISTANT PROFESSOR

The Division of Neurosurgery, University of Louisville School of Medicine in Louisville, KY 40202, invites applications for a tenure-track position in Neurosurgery. Applicants must possess a Ph.D. and will be expected to conduct independent research program. Expertise in molecular biology and immunology is preferred. Affirmative Action/Equal Opportunity Employer. Send curriculum vitae to: Dr. N. Nanda, M.D., Division of Neurosurgery, P.O. Box 33932, Shreveport, LA 71130.
ZENECA Pharmaceuticals Group (formerly ICPharmaceuticals Group), dedicated to the challenge of discovering and developing important new therapeutic agents, has openings in the CNS and Pulmonary Pharmacology drug discovery research groups at our suburban Wilmington, Delaware location.

CNS Pharmacology
The successful candidates will participate in molecular biological studies as part of an integrated team of biologists who interact closely with medicinal and molecular modeling chemists. Both positions require expertise in construction/expression of vectors for transient and stable mammalian cell expression and experience with mutagenesis techniques. Expression cloning of low abundance mRNA and genomic cloning is required.

SENIOR RESEARCH PHARMACOLOGIST — We seek a Pharmacologist to participate in and supervise molecular biological approaches, including cloning of drug therapy targets and their genetic manipulation. The successful candidate should have a PhD in molecular biology, molecular genetics, pharmacology, or biochemistry, with at least 2 years' postgraduate experience. Broad knowledge and experience in PCR are required.

SENIOR PHARMACOLOGIST — BS/MS in molecular biology, molecular genetics, pharmacology, or biochemistry, with at least 2 years' relevant experience in one or more areas of PCR is required.

Pulmonary Pharmacology
RESEARCH PHARMACOLOGIST — The successful candidate will interact in a team environment to establish and biologically characterize chronic in vivo models of pulmonary hypertension secondary to chronic obstructive pulmonary disease(s). A PhD in pulmonary physiology or pharmacology with 1-3 years' postdoctoral experience in the area of pulmonary vascular smooth regulation is required. Background in the principles of pharmacology also required. Good communication skills and experience with in vitro and in vivo techniques are essential. Understanding of the fundamentals of computers is an asset.

We offer competitive compensation, comprehensive flexible benefits, a unique investment plan, and the opportunity to join a team of scientists from a broad range of disciplines in an industrial pharmaceutical research environment.

Interested candidates should submit c.v. to: Melanie Lewis, ZENECA Pharmaceuticals Group, 1800 Concord Pike, Wilmington, DE 19897.

1994 U.S. Public Health Service
Epidemiology Training Program

If you are interested in training and research in the field of Epidemiology, now is the time to apply to the 1994 U.S. Public Health Service (PHS) Epidemiology Training Program (ETP). Applications are currently being accepted and due on September 21, 1993. Training will begin approximately July 1, 1994.

Program Features:
For most trainees this is a three-year program. The first year, trainees may pursue an M.P.H. or equivalent by attending a university to study epidemiology, biostatistics, and related subjects. During the subsequent two years, they will perform research with senior epidemiologist for one of the following agencies: National Institutes of Health (NIH), Food and Drug Administration (FDA), and the National Center for Health Statistics (NCHS).

Trainees are matched with a preceptor whose area of expertise is of interest and consistent with trainee's career plans. (In some cases, individuals accepted into the Program who have already had a year of study in epidemiology and biostatistics will be accepted for the final two years of the Program.)

Pay and allowances will depend on the personnel system agreed upon by the preceptor and the trainee. Several options are available depending on the agency selected. Agencies can use one of a number of mechanisms, the two most common are:

1. A limited appointment in the Commissioned Corps of the United States Public Health Service in which the usual starting rank for program entrants will be Lieutenant (O-3). The starting salary for an O-3 medical officer with dependents is approximately $43,460 depending on training and experience. For non-medical officers of the same rank with dependents, the starting salary is approximately $38,460.

2. Appointment as a staff fellow in the sponsoring agency with starting salaries of approximately $38,500 for physicians and $28,000 for nonphysicians. An increase of up to $2,000 per year will take effect in the second and third years of the program.

Educational costs and allowable relocation expenses for the first year are provided. Trainees may also be eligible for health and life insurance benefits.

Opportunities may be possible for physicians who join the ETP to enroll simultaneously in a Preventive Medicine Residency Program leading toward board eligibility.

Basic Requirements to Apply:
M.D., D.O., Doctorate in an allied health profession, or Ph.D., in a biomedical or behavioral science or equivalent, and one year of postdoctoral training or experience by July 1, 1994;

U.S. citizenship as of September 21, 1993; and

Acceptability to an accredited university offering an M.P.H. or equivalent, or more advanced public health degree (for the first year of the Program).

To obtain further Program details and an application package, send a postcard with your printed name and home mailing address to: NIH Training Center, Epidemiology Training Program, E9810/00, 9000 Rockville Pike, Bethesda, MD 20892, or call 301/402-3402.

Under the Affirmative Employment Program, minorities, women and persons with disabilities have been found to be under-represented in the GS 601 and 602 Epidemiologist series. Individuals who are members of these groups and meet the eligibility criteria are encouraged to apply.

The PHS Epidemiology Training Program is an Equal Opportunity Employer.
DEPARTMENT OF BIOLOGICAL SCIENCES
AVIAN PHYSIOLOGICAL ECOLOGY

The Department of Biological Sciences invites applications for a tenure track position. This is a re-advertisement, with the search now enlarged to consider applicants at the Associate as well as at the Assistant level. We seek an ecologist with proven ability to undertake physiological research on free-living birds in an evolutionary and ecological context. Possible areas of research include energetics, digestion or metabolism, but any relevant area may be considered. The successful applicant will hold an endowed position funded jointly by Simon Fraser University, the Canadian Wildlife Service (CWS), and the Natural Sciences and Engineering Research Council (NSERC) of Canada, and will be part of a team devoted to basic research on the problems faced by birds in changing environments. The candidate will be expected to teach in the biology program and to interact with colleagues in the Department of Biological Sciences and the CWS. Interested applicants should send a letter outlining their research interests and how they fit the position’s profile, a complete curriculum vitae, three letters of reference and three reprints to:

Dr. B.A. McKeown, Chair
ATT: Avian Physiological Ecologist
Department of Biological Sciences
Simon Fraser University
Burnaby, B.C. Canada
V5A 1S6

CLOSING DATE FOR APPLICATIONS IS AUGUST 31, 1993

Simon Fraser University is committed to the principle of equity in employment and offers equal employment opportunities to qualified applicants. The Department is particularly interested in increasing the number of qualified female applicants. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

NATIONAL INSTITUTE ON AGING

STAFF FELLOWSHIP ON HUMAN MAGNETIC RESONANCE SPECTROSCOPY AND IMAGING

Staff fellowships are available beginning July, 1993 for studying human brain function in relation to aging and such disorders as Alzheimer's disease and multiple infarct and other vascular dementias using in vivo nuclear magnetic resonance spectroscopy and imaging techniques. Data generated can be combined with that obtained from positron emission tomography, neuropsychological testing and neuropharmacological intervention. Responsibilities include writing and conducting research protocols, and limited clinical care on an 8-bed clinical research unit. MD degree and medical license (ECFMG if foreign trained) required. Fellows will work with the Laboratory of Neurosciences (S.I. Rapoport, M.D., Chief), Brain Aging and Dementia Section (M.B. Schapiro, M.D., Chief), National Institute on Aging, National Institutes of Health, Public Health Service, Bethesda, Md. Starting salary commensurate with training and experience. For further information, contact:

Dr. B. Horwitz, Bldg. 10, Rm 6C-414
Laboratory of Neurosciences
National Institute on Aging
9000 Rockville Pike, Bethesda, MD 20892
Tel. 301-496-4754; FAX: 301-402-0595;
Email: horwitz@alw.nih.gov.

NIH is an Equal Opportunity Employer
**Molecular Biosystems, Inc. (MBI), a world leader in the development of contrast agents for medical imaging, including ultrasound, MRI and CT, has an opportunity in our Analytical R&D Department for:**

**Research Associate**

This position requires a BS in Chemistry with 3 years lab experience or an MS with 1 year lab experience in analytical chemistry or pharmaceutical analysis.

Responsibilities include development & validation of analytical methods using chromatography (HPLC, GC), spectroscopy (UV-VIS, FTIR, fluorescence, ICP), titrmetry & wet chemistry. Will also be involved in the testing of bulk chemicals & formulated dosage forms. A working knowledge of GLP compliance & computers is desirable.

MBI offers an excellent salary and benefits package, an opportunity to make a significant impact, and an exceptional working environment. For immediate consideration, please send résumé with salary history to:

Molecular Biosystems, Inc.  
HR Department, A19-94  
10030 Barnes Canyon Road  
San Diego, CA 92121

An Equal Opportunity Employer

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**Postdoctoral Research Fellowship**

"**EVOLUTIONARY ANALYSIS METHODS FOR DNA SEQUENCES**"

A joint position is available in the Molecular Genetics Unit and the Department of Mathematics. The project aims to develop and apply improved and biologically realistic methods for analysing evolutionary trees and population history. In addition to the primary interest applicants should have subsidiary skills in molecular biology methods, mathematics, or computing.

The annual emolument payable for Postdoctoral Research Fellowships is currently NZ$37,440 and the Fellowship is tenable for a maximum period of two years. Further information can be obtained from either Associate Professor D Penny (D.Penny@massey.ac.nz) or Associate Professor M Hendy (M.Hendy@massey.ac.nz).

Reference number Sc 37/93 must be quoted.  
Closing date: 30 June 1993.

An information package including Conditions of Appointment is obtainable by telephoning extension 7318.

Applications, including a full curriculum vitae and the names, addresses and fax numbers of three referees should be sent to Mrs V B Bretherton, Personnel Section before the closing date specified.

We are an Equal Opportunity Employer.

Palmerston North, New Zealand  
Telephone (64) 6 356-9099 • Fax (64) 6 350-5615
POSITIONS OPEN

FACULTY POSITION
DEPARTMENT OF PHYSIOLOGY
NEW YORK MEDICAL COLLEGE

Applications are invited for a tenure-track position in the Department of Physiology. Candidates must have an independent, special consideration will be given to candidates with a background in molecular biology and/or cellular physiology and knowledge of endothelial cell and vascular smooth muscle mechanisms. Faculty rank and salary will be commensurate with credentials. Applicants should send curriculum vitae, letter of interest, and a statement of research interests and the names of 3 references to: Gabor Kaley, Ph.D., Professor and Chairman, Department of Physiology, New York Medical College, Valhalla, NY 10595

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

HUXLEY COLLEGE OF ENVIRONMENTAL STUDIES
WESTERN WASHINGTON UNIVERSITY

TERRESTRIAL (FOREST) ECOLOGIST, Ph.D. Huxley College of Environmental Studies is seeking outstanding candidates for a tenure-track FACULTY POSITION beginning September 15, 1993. Experience in teaching and recent research in forest ecology at landscape/ecosystem level is preferred. Teaching duties include environmental systems, landscape ecology, conservation biology, and graduate-level ecological methods with a North American focus. Huxley College offers multidisciplinary upper-division undergraduate and graduate programs in environmental studies within a comprehensive university of about 10,000 students. Send cover letter, resume and names/addresses of three references to: Chair, Ecology Search Committee, Huxley College of Environmental Studies, Western Washington University, 9180, Bellingham, WA 98225. FAX: 206-650-2842. Email: ecologist@henson.ccWWU.edu. Review of applications will begin July 1, 1993, and continue until the position is filled.

Western Washington University is committed to Equal Opportunity and Affirmative Action. We are working toward building a culturally diverse, broadly trained faculty and staff. Women, minorities and persons with disabilities are encouraged to apply. Persons with disabilities needing assistance in the application process may call (206) 650-3306. For the hearing impaired, call the Washington State TDD Relay Service (WSTRS) 1-800-833-6388.

PLANT SYSTEMATIST—MONOGRAPHER

The Rancho Santa Ana Botanic Garden Program in Botany is seeking applications for a FACULTY POSITION to begin January 1994. We seek a Ph.D.-level researcher who conducts modern monographic research. Preference will be given to applicants working on vascu- lar plants. Applications at all academic levels will be accepted. The successful candidate will be expected to establish and maintain a vigorous research program and to play an active role in the graduate program. Full consideration, applicants should send curriculum vitae and statement of research interests, and have three letters of reference sent to: Dr. Thomas S. Elias, Director, Rancho Santa Ana Botanic Garden, 1500 North College Avenue, Claremont, CA 91711 by 15 August 1993. The Rancho Santa Ana Botanic Garden is an Equal Opportunity/Affirmative Action Employer and encourages applications from members of minority groups and women.

SENIOR POSTDOCTORAL POSITION

Available in NIH- and OCAST-funded laboratory to study the molecular mechanisms of drug resistance in the HIV virus. The applicant should have a strong back- ground in computational biology. Previous experience in the study of electrostatic interactions in proteins is advantageous. The initial appointment is for 2 years, but may be renewed for a third year. Salary commen- surate with experience. Send cover letter, curriculum vitae, background description and the names of two references to: Dr. Larry L. Gerstein, University of Okla- homa Health Sciences Center, 801 N.E. 13th Street, Oklahoma City, OK 73109.

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to conduct electrophysiological and pharmacologi- cal studies of the inositol phosphate cascade in photore- ceptors. Please submit curriculum vitae and three letters of recommendation to: Alan Fein, Ph.D., Department of Physiology, MC3805, University of Connecticut Health Center, Farmington, CT 06030

An Affirmative Action/Equal Opportunity Employer, M/F/D/V.

POSTDOCTORAL POSITION available immediately to study the molecular basis of hematological toxicity induced by anti-HIV drugs. Experience in labora- tory techniques of cell culture and molecular biology is required. Send curriculum vitae and names of 3 references to: Dr. Krishna C. Agarwal, Department of Pharmacology, Tulane University School of Medi- cine, New Orleans, LA 70112. Tulane is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH—Two projects available immediately to study the molecular basis of hematological toxicity induced by anti-HIV drugs. Experience in laboratory techniques of cell culture and molecular biology is required. Send curriculum vitae and names of 3 references to: Dr. Krishna C. Agarwal, Department of Pharmacology, Tulane University School of Medici- ne, New Orleans, LA 70112. Tulane is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH—Two projects available immediately to study the molecular basis of hematological toxicity induced by anti-HIV drugs. Experience in laboratory techniques of cell culture and molecular biology is required. Send curriculum vitae and names of 3 references to: Dr. Krishna C. Agarwal, Department of Pharmacology, Tulane University School of Medici- ne, New Orleans, LA 70112. Tulane is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—MOLECULAR VIOLOLOGY

Immediate opening to study the molecular biology of satellite RNA-mediated disease attenuation in virus in- fected plants with emphasis on satellite RNA biology. A Ph.D. is required, and experience in molecular biology is preferred. Send curriculum vitae and names of three references to: Dr. S. A. Ghabrial, Plant Pathology Department, University of Kentucky, Lexington, KY 40546. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

The Dana-Farber Cancer Institute seeks to fill research positions at the postdoctoral level to study the molecular mechanisms of T-cell leukemia. Applicants should have a background in cellular immunology and/or molecular biology. Joint appoint- ment to be held in an appropriate department of Harvard Medical School. Send curriculum vitae and 3 references to: Dr. Harvey Cantor, Laboratory of Immunopathology, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115 USA

Two POSTDOCTORAL POSITIONS are available immediately on an NIH Institutional Training Grant in the area of diabetes and hormone action; regulation of insulin secretion in pancreatic beta cells; molecular mecha- nisms of beta-cell beta-cell transduction pathway. Applicants should have an M.D. or Ph.D. degree and be a U.S. citizen or permanent resident. Minority applicants are encouraged. Send curriculum vitae and names of three references to: Dr. John R. Wittes, Department of Biochemistry and Biophysics, University of Pennsylva- nia, Philadelphia, PA 19104. FAX: 215-898-9918. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS available for re- cent Ph.D. with training in biochemistry, enzymology, biomedical engineering, or other related biochemical area to work on research projects involving drug removal and delivery. Experience or knowledge in enzyme modification, blood coagulation, thrombolysis, immuno- chemistry, and animal work are desirable. Ability to work across disciplines essential. Send resume and three letters of reference to: Dr. Victor C. Yang, College of Phar- macy, The Pennsylvania State University, University Park, PA 16802-1065. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available for re- cent Ph.D. with training in biochemistry, enzymology, biomedical engineering, or other related biochemical area to work on research projects involving drug removal and delivery. Experience or knowledge in enzyme modification, blood coagulation, thrombolysis, immuno- chemistry, and animal work are desirable. Ability to work across disciplines essential. Send resume and three letters of reference to: Dr. Victor C. Yang, College of Phar- macy, The Pennsylvania State University, University Park, PA 16802-1065. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH SCIENTISTS/ STAFF ASSOCIATE

Available immediately to study genetic control of tumor progression in intracranial tumors and tumor- derived cell lines. Projects focus on genomic instability, genetic control of tumor progression, and adenosine receptor interactions in the brain cells. Experience in cell culture, gene expression analysis, basic molecular biology, and virology is required. A Ph.D. in molecular biology is highly desir- ed. Send curriculum vitae and names of three references to: Gregory J. Duignon, Ph.D., Department of Neuro- surgery, University of Pittsburgh, 1141 Berman Institute, Department of Physicians & Surgeons, 710 West 16th Street, New York, NY 10032. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

IN YEAST MOLECULAR GENETICS

Two positions are available to study mechanisms of transcriptional regulation. Projects consist of defining and characterizing:

- components of the general transcription apparatus
- components of the heat shock response pathway

Experience in molecular biology is essential. Send curriculum vitae and names of three references to: Dr. David S. Gross or Dr. Michael Hampsey, Depart- ment of Molecular Biology and Biochemistry, The Yal- e University School of Medicine, New Haven, CT 06520. The University of Connecticut Health Center, 1501 Kings Highway, Shreveport, LA 71130-3922. LUSMC is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE POSITION

to manage the automated DNA sequencing section of the W. M. Keck Facility Biotechnology Resource Laboratory at Yale University. Applicants should have a Ph.D. in biochemistry or a related science and extensive experience with DNA sequencing and molecular biology tech- niques. Candidates should also have good interpersonal and communication skills. Opportunities will be provide- d for NIH-funded research, including DNA sequencing and DNA sequencing methodology, on human genome mapping or sequencing or on other topics that are comple- mentary to research that is ongoing within the laboratory of K. Williams on understanding structure/function relationships in single-stranded nucleic acid binding pro- teins.

The successful applicant will be encouraged to pursue independent grant support as well as to assist in the preparation of shared instrumentation grant propos- als. The position will be available this summer and the salary will be competitive with the level of experience. Curriculum vitae should be sent to: Ken Williams, Ph.D., W. M. Keck Foundation Biotechnology Reso- urce Laboratory, Department of Molecular Med- icine, 295 Congress Avenue, New Haven, CT 06536- 0812. Yale University is an Equal Opportunity Employer.

RESEARCH ASSOCIATE

Western Psychiatric Institute and Clinic/University of Pittsburgh Medical Center currently seeks qualified ap- plicants for the position of Research Associate in its Pittsburgh Adolescent Research Center.

The incumbent will be responsible for collecting serum samples; using a separation technique to isolate caffeine/antipyrine, using high performance liquid chromatogra- phy for the determination of caffeine levels as well as the use of gas chromatography/mass spectrometry. In addi- tion, the incumbent will perform capillary electrophor- esis and Bradford protein determination assays. Will also be responsible for database management using DataEase and Quot- tro to generate linear regression analysis of data.

The successful candidate must have a Bachelor's degree in a Biological Science with a minimum of five years of experience with HPLC and gas chromatography/mass spectrometry and the ability to use data management pro- grams including DataEase and Quattro. Candidate should be familiar with chromatographic and mass spectrometric analyses and be able to use HPLC and UV spectrometry. Basic knowledge of statistics is necessary. The starting salary for this position is $19,843. We offer a comprehensive benefits package including a tuition assistance program. Interested candidates send resumes and salary history to: Andrea Hegedus, Ph.D., WES- TERintérieur INSTITUTE AND CLINIC/UPMC, 3811 O'Hara Street, Pittsburgh, PA 15213. An Equal Opportunity Employer.

1542

SCIENCE • VOL. 260 • 4 JUNE 1993
Mitotix, Inc., a well-funded new biopharmaceutical company, is developing cell-cycle based therapeutics for cancer and infectious diseases.

We are looking for creative, highly motivated and enthusiastic Post-Doctoral Scientists with a strong record of achievement in either the academic or industrial environment.

Cell geneticists, with experience in expression cloning, cDNA library construction, genetic manipulation of yeast or mammalian cells.

Protein biochemists, with experience in protein purification and characterization and/or peptide chemistry.

Structural biologists, with experience in macromolecular computer modeling and/or protein structure determination by physicochemical methods.

Two-year Fellowships will be awarded, with the possibility of a third year, based on performance. We offer competitive salaries and benefits, a wonderful location in the heart of Cambridge’s scientific community, and the chance to work with leading science and business professionals. We are strongly committed to research and encourage participation in scientific meetings and publication of scientific results.

Send a curriculum vitae and the names and addresses of three references to: Giulio Draetta, Vice President for Biological Research, Mitotix, Inc., One Kendall Square, Building 600, Cambridge, MA 02139, USA. An Equal Opportunity Employer.

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CANCER PREVENTION FELLOWSHIP PROGRAM

The Division of Cancer Prevention and Control (DCPC) is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: Master of Public Health training (at accredited university programs); Participation in the DCPC Cancer Prevention and Control Academic Summer Course (open to all physicians and scientists interested in learning the principles and practice of cancer prevention and control); Working at NCI directly with individuals on cancer prevention and control projects; Field assignments in cancer prevention and control programs at other institutions. Funding permitting, as many as ten Fellows will be accepted for up to three years of training, beginning July 1, 1994. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

ELIGIBILITY

M.D., D.D.S., D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current ECFMG/FMGEMS certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

OR

Ph.D., Dr.P.H. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

PLUS

U.S. citizenship or resident alien eligible for citizenship within four years.

For details and application catalog send a postcard or letter with your name and home address to:

Douglas L. Weed, M.D., M.P.H., Ph.D.
Director
Cancer Prevention Fellowship Program
Division of Cancer Prevention and Control
National Cancer Institute
Executive Plaza South, T-41
Bethesda, MD 20892

***Further inquires: Mrs. Barbara Reedling; (301) 496-8640

DEADLINE FOR RECEIPT OF APPLICATIONS: SEPTEMBER 1, 1993

NIH is an Equal Opportunity Employer
NATIONAL UNIVERSITY OF SINGAPORE
DEPARTMENT OF ORTHOPAEDIC SURGERY

Applications are invited for teaching appointments in the Department of Orthopaedic Surgery.

Candidates applying for an appointment as Lecturer should possess registrable medical degree together with relevant professional/academic qualifications.

For short-term appointments as Fellow/Senior Fellow, the contract will be for one year in the first instance, with the possibility of further extension. Appointees will carry out research in one of the following areas and be expected to participate actively in the teaching of undergraduates and clinical activities of the Department:

- Spine
- Paediatric Orthopaedics
- Orthopaedic Research
- Adult Reconstructive Surgery

Laboratory facilities are available for animal surgery, motion analysis, biomechanics, histology and biochemistry related to orthopaedic research.

The commencing salary will depend upon the candidate's qualifications, experience and the appointment offered. Gross annual emoluments range as follows:

<table>
<thead>
<tr>
<th>Position</th>
<th>Salary Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecturer/Fellow</td>
<td>S$53,160 - 64,200</td>
</tr>
<tr>
<td>Senior Fellow</td>
<td>S$58,680 - 100,310</td>
</tr>
</tbody>
</table>

In addition, the Professional Fee Scheme will apply to appointments who are accorded clinical appointments by the National University Hospital.

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 or a housing allowance, 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.

All academic staff have access to the following computer and telecommunication resources: a networked microcomputer (an IBM compatible or Apple Macintosh); an IBM mainframe computer with 16 MIPS of computing power; an NEC SX supercomputer with 650 MFLOPS of computing power; departmental laser printers; a wide spectrum of mainframe and microcomputer software; voice-mail. The 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-line library catalogue, CD-ROM databases, Teleview, 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

Enquiries may also be sent through BITNET to: PERLIMMU@NUS3090, or through Telefax: (65) 7783948.

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The Numbers Speak for Themselves.

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<table>
<thead>
<tr>
<th>Publication</th>
<th>Circulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>154,842</td>
</tr>
<tr>
<td>Nature</td>
<td>51,306</td>
</tr>
</tbody>
</table>

Science, the global weekly of research.

For more information, contact:
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In Europe, contact
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FURTHER YOUR CAREER BY MORE THAN A DEGREE.

SCHOOL OF MEDICINE
C.R. ROPER FELLOWSHIP FOR THE PROMOTION OF MEDICAL RESEARCH
Applications are invited for appointment as the C.R. Roper Fellow for research in either clinical or non-clinical areas.
You will possess suitable qualifications in an appropriate and acceptable research field. You should consult with the Head of the appropriate department in the Faculty of Medicine, Dentistry and Health Sciences concerning the acceptability of your research project. Evidence of the department's acceptance must be included with the application. It is anticipated that the appointment will be made in 1993, for two years, and thereafter by negotiation.
Salary: $41,000-$48,686 p.a. (Research Fellow Gr 2);
$50,225-$57,913 (Senior Research Fellow). A grant-in-aid of up to $4,100 per annum may also be available.

For further information and a position description, phone the Administrative Officer, School of Medicine, on (03) 344 4019, or fax (03) 344 5998.
Reference number: BS00491
Applications should be sent, in duplicate, quoting three referees (including facsimile numbers) to the Director, Personnel Services, The University of Melbourne, Parkville, Victoria, 3052.

THE UNIVERSITY OF MELBOURNE AND THE CRC FOR INDUSTRIAL PLANT POLYMERS
SENIOR RESEARCH FELLOW
The Centre for Industrial Plant Biopolymers is a co-operative venture involving The University of Melbourne (Department of Chemical Engineering/School of Botany), CSIRO Division of Food Science and Technology, and a commercial partner Tridan-Bunge Ltd.
The Research and Development Programme is focused on evaluating the potential of plant cells in culture as a source of plant gums for commercial use. One aspect of this programme is to understand the molecular structure and physico-chemistry of the gum components, their physical interactions and functional properties.
You would be expected to initiate and co-ordinate a basic and strategic research programme to examine the functional properties of these gums and the relationship between structure and function, under the direction of Professor D V Boger.
You must have experience in physico-chemical techniques and their application in polymer systems. Experience in the field of chemical engineering and/or complex carbohydrates would also be an advantage. A capacity to interact with multi-disciplinary research groups and industry is a primary requirement.
The position is for three years in the first instance, with an option of a further two years.
Salary: $50,225-$57,913 p.a. (Senior Research Fellow);
$60,475-$66,625 p.a. (Principal Research Fellow)
For further information and a position description, phone Professor D V Boger on (613) 344 7440, Dr A Basic on (613) 344 5041 or Dr D Hawley on (613) 344 5043; or fax (613) 347 1071.
Applications close: 18 June 1993
Reference number: G/481/70
Applications should be sent, in duplicate, quoting six referees (including facsimile numbers) to the Director, Personnel Services, The University of Melbourne, Parkville, Victoria, 3052.
The University of Melbourne is an equal opportunity employer and has a smoke-free workplace policy.

THE UNIVERSITY OF MELBOURNE
MORE THAN A DEGREE

BS, MS and PhD SCIENTISTS
Drug Metabolism and Disposition Research

give us your best

For more than 115 years, scientists at Eli Lilly and Company have been developing novel, high quality pharmaceutical products. With a current yearly investment of over $900 million in research and development programs, our continued success in reducing the time required to get new drug candidates to market requires the finest scientific talent available.

To further build our research capabilities, we are seeking self-motivated, innovative BS, MS and PhD level scientists to plan, organize, and manage programs in the area of pre-clinical and clinical drug metabolism.

Successful PhD candidates will establish a laboratory program utilizing basic and applied approaches to study the metabolism and disposition of drug candidates. Applicants must have a PhD degree in biochemistry, analytical chemistry, medicinal chemistry, bioanalytical chemistry, or a related field; and experience in HPLC and other quantitative analytical methods to study absorption, distribution, metabolism, and excretion of drugs in animal models and humans. A strong background in pharmacologic and pharmacokinetic mechanisms as they relate to drug disposition is desirable.

Successful BS and MS scientists are needed to work collaboratively with senior investigators to study chemical transformations in biological systems. Ideal candidates will have a BS or MS degree in analytical chemistry, biochemistry, or in a related discipline; experience in developing and implementing quantitative bioanalytical methods using HPLC and/or GC systems; and excellent organizational and communication skills. Experience with computer data systems and radiochemicals is desirable.

Eli Lilly and Company offers a competitive compensation and benefits package and a highly professional environment. For prompt consideration, please forward your resume to: Eli Lilly and Company, Scientific Recruitment, Dept. DMDS, Lilly Corporate Center, Indianapolis, IN 46285.

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POSTDOCTORALPOSITION

Medical

MOLECULAR BIOLOGY OF AGING:

PRE- AND POSTDOCTORAL POSITIONS

NII-supported predoctoral position currently is available to study the molecular biology of aging in the Department of Cellular and Structural Biology at the University of Texas Health Science Center at San Antonio. A postdoctoral position will be available as of January 1994. Predoctoral students will participate in the faculty range from characterization of transacting proteins to gene regulation in transgenic mice. Interested investigators are invited to: Barbara H. Bowman, Ph.D., Professor and Chair, Department of Cellular and Structural Biology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7762. Training Faculty: G.S. Adrian, B.H. Bowman, I.L. Cameron, B. Chatterjee, J.M. Dubinsky, P. Jagadeeswaran, R.J. Klebe, K.J. Lech, E.Y. Lee, W.H. Lee, W.W. Morgan, S.L. Naylor, J.P. Nelson, R.J. Reiter, A.G. Richardson, A.K. Roy, A.Y. Sakaguchi, C.A. Walter, and F. Yang, The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

FLOW CYTOMETRY TECHNOLOGIST

APPLIED ECOLOGIST:

3D/Environmental Services, Inc., a rapidly growing, multidisciplinary consulting firm seeks to hire an applied ecologist with a graduate degree and a minimum of 3 years of experience. Experience should emphasize impact assessment, habitat restoration/creation, and project management. A strength in vertebrate community ecology is strongly desired. Experience with endangered species management and multidisciplinary projects is desirable. Strong written and oral skills and analytic ability are essential. Send application materials to: Dr. Virgil Brack, Jr., 3D/ESI, 781 Neib Road, Cincinnati, OH 45233.

FLOW CYTOMETRY TECHNOLOGIST

Applicants should possess a minimum of 3 to 6 years of experience in the cell biology of aging. A basic understanding of the mechanisms of mitochondrial biogenesis will be necessary. Experience in technical hands-on experience with the day-to-day operation of a research-grade flow cytometer, the successful candidate should have a comprehensive background in specimen preparation protocols, new methods development and validation, implementation of novel techniques, and instrumentation. Experience in research will be desirable. Applicants should submit: a list of references, and salary history indicating POSITION #93-K21-H to: KRUG Life Sciences, Inc., Human Resources Department, P.O. Box 58287, Houston, TX 77258-5287, Employment Eligibility Verification Required, Equal Opportunity Employer, M/F/H/V.

SUPERVISOR/ELECTRON MICROSCOPE

Supervise and perform day-to-day operations of the Electron Microscopy Facility and assist investigators. A minimum of one year experience is required in this or a closely related area. The candidate is expected to: (1) supervise the research work in biological and/or physical sciences and at least 2 years of experience in EM, or master's degree and at least 1 year of relevant experience. Qualifications include comprehensive knowledge of EM and ability to establish harmonious relations. Qualified applicants should send a résumé and names of references to: Dr. W.B. Rhoten, Department of Anatomy and Cell Biology, School of Medicine, Marshall University, Huntington, WV 25755-9300. For full consideration submit application by June 30, 1993.

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RESEARCH SCIENTIST

Position is immediately available to study the struc- ture-function relationship of IL-1 receptors type I and II. Specific requirements include strong background in molecular biology, including CDNA cloning and se- quencing, vector construction, point mutations and expression in cultured cells. Send curriculum vitae and names of references and salary requirements to:

David Benjamin, M.D.

1233 James Cancer Hospital and Research Institute The Ohio State University Hospitals

300 West 10th Avenue

Columbus, Ohio 43210-1228

Telephone: (614) 293-3716, FAX: (614) 293-3112

PRODUCT DEVELOPMENT SCIENTIST

Genetic Testing Institute (GTT), a company engaged in the discovery and development of immuno- diagnost- ic reagents and kits, is seeking a scientist to help conceive and develop new products. Preference will be given to candidates with background in immunology and experience in the development of new products. The position requires a Ph.D. degree and at least 2 years of postdoctoral experience. For further information, call: 218-842-5793.

POSTDOCTORAL FELLOW

to work with multidisciplinary group on generation of new tissue equivalents using cultured cells on novel polymer scaffolds. Focus will be on hepatocytes and control of hepatocyte function through matrix interaction. Available immediately. Send curriculum vitae, state- ment of research interests, and names and addresses of three references to Dr. Joseph P. Vacanti, M.D., Depart- ment of Surgical Research, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. Children's Hospital is an Equal Opportunity Employer.

POSTDOCTORAL FELLOW

to work with multidisciplinary group on generation of new tissue equivalents using cultured cells on novel polymer scaffolds. Focus will be on hepatocytes and control of hepatocyte function through matrix interaction. Available immediately. Send curriculum vitae, statement of research interests, and names and addresses of three references to Dr. Joseph P. Vacanti, M.D., Department of Surgical Research, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. Children's Hospital is an Equal Opportunity Employer.

POSTDOCTORAL FELLOW

The Department of Medical Cell Biology at the Alfred I. duPont Institute seeks a postdoctoral fellow to participate in a NII-funded research project on mechanisms of acidic and iron nutrition in the mammalian embryo. Candidates should possess a Ph.D. and relevant experience in cell biology and/or developmental biology. Send inquiries to: Department #8801, Attention: Dr. J. B. Lloyd, Director, Department of Medical Cell Biology, ALFRED I. duPONT INSTITUT, P.O. Box 269, Wilmington, DE 19899, Equal Opportunity Employer.

NEUROGERONTOLOGY INSTITUTIONAL PHYSICIAN/SCIENTIST PROGRAM

The University of Southern California has recently received an award from the National Institute on Aging for the AgriDyne/Scientist Program for the development of basic and clinical research skills for the study of diseases related to the aging nervous system. This is a five-year salary award with appointments in the Department of Neurology of the School of Medicine and in the School of Gerontology. Candidate must be a U.S. Citizen or have permanent U.S. Resident status, and be board eligible in neurology, psychiatry, neuropathology, or internal med- icine. The first two to three years are spent in basic research at the Anders Gerontology Center or the Hedo Neurosciences and Behavioral Science Program. During the third year, the candidate joins the Department of Neurology as Assistant Professor (tenure-track). He or she continues clinical training in neurogerontology and develops individual research program. Clinical responsibilities are limited to 25% of time and include teaching students, residents, and fellows in neurogerontology. This position is open immediately. To apply send curriculum vitae and three letters of recommendation to Leslie P. Weisenfeld, M.D., Department of Neurology, USC School of Medicine, 1510 San Pablo Street, Los Angeles, CA 90033-4606, and arrange for two days of interviews. For further information, call: 213-842-5793.

INTERNATIONAL FELLOWSHIP

The Dan Charitable Trust Fund for Research in Bio- logical Sciences provides financial support for collabora- tive research between Japan and other countries or participation in international conferences or workshops held in Japan or other countries. A total of 6 fellowships (1- or 3-month duration) will be awarded every year. Applications for fellowships are invited. Address the address listed below by October 31, 1993. For more information, write: Kiyoh Yamauchi, The Dan Charita- ble Trust Fund for Research in the Biological Sciences, 1-1-1 Nihombashi, Chuoku, Tokyo 103, Japan. FAX: (03) 3271-2843.
ANNOUNCEMENT

PENNSTATE

Nominations and Applications are Invited for the Verne M. Willaman Chairs in Molecular Biology and the Life Sciences

Two endowed professorships, with appointment in the Department of Biology or the Department of Molecular and Cell Biology, are available for persons with research interests in molecular biology and related areas of the life sciences, including biomolecular structure and function, gene regulation, developmental genetics, population genetics, and molecular evolution.

For information, contact:
Dr. Robert K. Selander, Life Sciences Search Committee, Box WS, Department of Biology, 208 Mueller Laboratory, Pennsylvania State University, University Park, Pennsylvania 16802-5301. Phone: (814) 234-8997. FAX: (814) 863-4706.

Dr. Donald A. Bryant, Molecular Biology Search Committee, Box WS, Department of Molecular and Cell Biology, 108 Althouse Laboratory, Pennsylvania State University, University Park, Pennsylvania 16802-6500. Phone: (814) 865-1992. FAX: (814) 863-7024. Applications will be accepted until vacancies are filled.

The University is an Affirmative Action/Equal Opportunity Employer.

Women and minorities are encouraged to apply.

MAYO CLINIC SCOTTSDALE

POSTDOCTORAL FELLOWS IN CELL AND MOLECULAR BIOLOGY

Positions available in collaborative research effort emphasizing transgenic approaches to study the molecular genetics of murine eosinophil differentiation and the interactions of eosinophils with other components of the immune system. Competitive salary and comprehensive benefits package. Starting date is January 1, 1994.

Send curriculum vitae and names of three references to either:

Dr. James J. Lee or Dr. Nancy A. Lee
Department of Biochemistry and Molecular Biology
Samuel C. Johnson Medical Research Center
Mayo Clinic Scottsdale
13400 E. Shea Blvd.
Scottsdale, AZ 85259

SAMUEL C. JOHNSON RESEARCH CENTER MAYO CLINIC SCOTTSDALE
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ASSOCIATE SENIOR INVESTIGATOR
Pharmacokinetics

The specific duties include: (i) design, conduct, analyze and report on human pharmacokinetics and toxicokinetic studies for Phase I through Phase IV drug development in collaboration with clinical research scientists including population pharmacokinetic and pharmacodynamic analysis using appropriate statistical/pharmacokinetic software such as NONMEM; (ii) develop and coordinate comprehensive program of pharmacokinetic studies for worldwide regulatory submission; and (iii) prepare reports of clinical pharmacokinetic and toxicokinetic studies, present research findings to scientific bodies and publish clinical pharmacokinetic studies in scholarly professional journals.

Minimum requirements are a Ph.D. degree in Pharmacy or Pharmacaceutics and either two (2) years of experience in the job offered or two (2) years of experience in Clinical Pharmacy which shall include two (2) years graduate research experience in clinical pharmacokinetics involving (i) the application of basic and advanced clinical pharmacokinetic theories including population pharmacokinetics and pharmacodynamics, (ii) the analyses of population pharmacokinetics data employing nonlinear and mixed effects techniques and (iii) the use of pharmacokinetic/statistical software packages. Must have published in the area of advanced pharmacokinetic methods and population analysis techniques in scholarly professional journals. This experience may be acquired in conjunction with the required graduate education.

Salary of $55,000 with employee benefits; M-F, 8am-4pm. No fee charged. For prompt and confidential consideration, submit resume or C.V. to The Phila. Job Bank, 444 N. 3rd St. - 3rd Fl., Phila., PA 19123 and refer to Job Order Number 1539.

STRUCTURAL BIOLOGICAL CHEMISTRY
Faculty Positions
The University of Texas Medical Branch
Galveston, Texas

Multiple tenure-track faculty positions at senior and junior ranks are available in areas involving the application of Nuclear Magnetic Resonance (NMR) to solving structure of biological macromolecules. The University of Texas Medical Branch has made a major commitment to create a strong Structural Biology Program on campus to enhance our existing capabilities. The NMR facility consists of new 400 and 600 MHz Varian spectrometers with a 750/800 MHz instrument contracted for delivery in 1995. Endowed foundations, the Medical Branch and NIH funding have provided excellent instrumentation and space in support of Structural Biology. The ultimate composition of the Unit will consist not only of NMR spectroscopists, but also other disciplines relevant to Structural Biology, including computational chemistry and x-ray crystallography.

Senior investigators with well established and productive research program are encouraged to apply. Successful junior candidates must have outstanding potential for independent research with a record and stature in the field of NMR commensurate with the academic rank they are seeking. They will be expected to attract funding from national agencies and to fully participate in graduate education at the departmental level. Affiliation with the Sealy Center for Molecular Science or other relevant academic departments will be available.

Applications should include a complete curriculum vitae, a summary of research interests and names and addresses of at least three references. Review of applications will continue until all positions are filled. Applications should be addressed to:

Dr. James C. Lee
Structural Biology Search Committee
Department of Human Biological Chemistry and Genetics and The Sealy Center for Molecular Science
University of Texas Medical Branch F-47
Galveston, Texas 77555

UTMB is an equal opportunity M/F/V/H affirmative action employer. UTMB hires only individuals authorized to work in the United States. UTMB is a drug-free/smoke-free workplace.
In preparation for the retirement of its current Director General, Dr. Nasrat Fadda, the Board of Trustees invites applications for the post of

DIRECTOR GENERAL

Qualifications should include:
- A distinguished career of professional achievement in any of the disciplines related to agricultural research relevant for dry areas;
- Familiarity with West Asia/North Africa (WANA) Region's national agricultural research institutions and/or international organizations;
- An established record of institutional management at the highest level and of the leadership and motivation of a multidisciplinary and international staff of senior scientists and professionals, experience in inter-institutional networking and ability to attract funding.

Female candidates are welcome to apply.

ICARDA, based on Aleppo, Syria, is one of 18 international centers belonging to the Consultative Group on International Agricultural Research (CGIAR). It receives support from a large number of national and international donors. It has a professional staff of about 100 and an annual budget of 20 million dollars. The center is engaged in research and research associated training activities to assist national efforts to increase food production and to conserve the natural resource base in the drier regions of West Asia and North Africa. Its research program includes germplasm enhancement of the region's most important food and fodder crops, farm resource management, socio-economics and public policy.

The appointment of the new Director General will be for an initial five year term. Extension for an additional five year term is possible depending upon accomplishments. Salary is open and commensurate with experience and qualifications. It is assumed that the successful candidate will assume the position as at the beginning of 1995.

Further details can be obtained from the address below, where application with full C.V. and the names and addresses of three referees should be received not later than August 15, 1993.

Prof. Dr. Winfried von Urrf
Lehrstuhl fuer Agrarpolitik
D-8050 Freising-Weihenstephan
GERMANY

POSTDOCTORAL
FELLOWSHIP

CNS Research

A 2-year postdoctoral position in CNS pharmacology is currently available at ZENECA Pharmaceuticals Group (formerly ICI Pharmaceuticals Group).

Candidate will have a PhD or equivalent in the Biological Sciences. A strong research background in neurophysiology with demonstrated knowledge of animal EEG experimentation is essential. You will be responsible for the implementation of a state-of-the-art EEG laboratory to conduct studies aimed at determining dose-response and duration of action of CNS compounds. Excellent oral and written communication skills and the ability to interact with scientists in a multidisciplinary environment are important.

Interested candidates should submit a C.V. to: Ron Martin, ZENECA Pharmaceuticals Group, 1800 Concord Pike, Wilmington, DE 19897.

ZENECA
Pharmaceuticals Group
ZENECA Pharmaceuticals/Stuart Pharmaceuticals Business Units of ZENECA Inc. An Equal Opportunity Employer M/F.

RESEARCH SCIENTIST
Toxicology

Houghton Pharmaceuticals Inc. (HPI), a San Diego-based drug discovery company, has a challenging opportunity for a scientist to support our rapidly expanding R&D efforts in the Preclinical Development Department.

Responsibilities include establishing a preliminary toxicology and pharmacokinetic/pharmacodynamic in-house facility, generating protocols, monitoring toxicology studies at contract facilities, and providing advice regarding regulatory strategy.

The ideal candidate will have a PhD in Toxicology, preferably ABT certified; experience in an industrial setting, contract laboratory experience a plus; toxicokinetic background; report-writing experience; computer literacy; and excellent communication skills. Pharmacokinetic/pharmacodynamic and regulatory experience are desirable.

HPI offers comprehensive benefits including relocation assistance, and equity participation. For consideration, please submit your resume to:

HOUGHTON PHARMACEUTICALS INC., SM/SCI/6-4, S3/RS-PC, 3550 General Atomics Ct., San Diego, CA 92121. EOE M/F/D/V.

CHAIRPERSON

SECTION OF PLANT BIOLOGY
UNIVERSITY OF CALIFORNIA, DAVIS

The University of California, Davis invites applications and nominations for Professor and Chairperson of the Section of Plant Biology within the newly reorganized Division of Biological Sciences. The chairperson will be responsible for providing academic and administrative leadership to promote excellence in teaching and research in the Section. Candidates must have active research programs with outstanding records of achievement in an area of experimental plant biology such as cell and molecular plant biology, developmental biology or physiology and biophysics.

The section offers an undergraduate degree and serves as the administrative core of the Graduate Group in Plant Biology, a campus-wide unit which offers Master's and Ph.D. degrees. Due to recent retirements, there is an opportunity for significant recruitment of new faculty. The section will be moving to a new building in 1996.

For the initial application, candidates should submit a curriculum vita, a statement of their current research program, and a statement of their teaching and administrative experience and philosophy to:

Chair of the Search Committee
Section of Plant Biology
University of California
Davis, CA 95616

Closing Date: Open until filled, but applications must be received before September 1, 1993 to be assured of consideration.

The University of California is interested in candidates who reflect the highest standards of scholarship and professional activities and does not discriminate on the basis of race, color, national origin, religion, sex, disability, age, or sexual orientation.

The University of California is an Equal Opportunity/Affirmative Action Employer.
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Allan L. Goldstein, Ph.D., The George Washington University School of Medicine, Washington, D.C.
Adan Rios, M.D., OnCol Medical Associates, P.A., Houston, Texas

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National Institutes of Health/National Institute on Aging
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• Molecular, cellular and gene approaches.
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• Synergy between new drugs, biological response modifiers, and/or vaccines in combination therapies.
• Clinical application of combination therapies in cancer treatment.
• Combination approaches in the treatment of AIDS and other infectious diseases.
• Future directions/Prospects.

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$100 Student

For further information please contact:

Lynne K. Tiras, CMP or Karen Schmitt International Meeting Managers, Inc.
4550 Post Oak Place, Suite 248 Houston, TX 77027
(713) 965-0566; FAX (713) 960-0488
POSITIONS OPEN

PROJECT ECOLOGIST, Disney Wilderness Preserve, the Nature Conservancy. Scientist needed to design and implement research and monitoring of critical species, natural communities and restoration programs on 10,000 plus-acre preserve. Will also coordinate data analysis, publish research results and develop education training and outreach components of program. Ph.D. preferred with grant writing background and 3 to 5 years of experience. Send résume and cover letter to: Jora Young, Department DP, The Nature Conservancy, 2699 Lee Road, Suite 500, Winter Park, FL 32789.

RESEARCH ECOLOGIST. The Nature Conservancy seeks a broadly trained plant or community ecologist to conduct research and coordinate cooperating scientists on a multidisciplinary longleaf pine ecosystem restoration project. Ph.D. required; knowledge of southeastern United States ecosystems preferred. Position is full-time and expected to last 3 to 5 years. Send applications including curriculum vitae, statement of experience, and 3 letters of reference by July 1, 1993, to: Jeffrey Hardesty, The Nature Conservancy, 118 Newins-Ziegler Hall, University of Florida, Gainesville, FL 32611. The Nature Conservancy is an Equal Opportunity Employer.

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The Biotechnology Patent Examining Group of the Patent and Trademark Office is currently recruiting scientists for positions as PATENT EXAMINERS. Individuals with advanced degrees and/or equivalent experience in the fields of immunology, molecular biology, gene therapy, transgenic animals, animal science, biochemistry, protein engineering and microbiology are urged to send a résumé or SF-171 to the following address:

Patent and Trademark Office
Office of Personnel
Box 171
Washington, DC 20231

K. Clark (180)

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Exclusively From BioSource International.

hIL-6R
Soluble IL-6 Receptor may provide significant supplemental information pertaining to IL-6 regulated disease states such as sepsis, inflammation and acute phase responses. Recognizes 80kDa moiety of IL-6 Receptor Sees free receptor and IL-6 complexed receptor 62.5 pg/ml sensitivity Two Plates, 192 determinations

hIL-10
IL-10 has been shown to be an inhibitor of cytokine synthesis in T-Cells and may play an important role in inflammation and autoimmune diseases. Recognizes mutant and recombinant IL-10 No cross-reactivity with other cytokines 1.0 pg/ml sensitivity Two Plates, 192 determinations

Our Two-Plate Format Saves You Money.

Cytoscreen™ ELISA Kits contain two-strip well plates, 192 determinations, for about the price of a comparable one plate kit.

<table>
<thead>
<tr>
<th>hIL-2</th>
<th>NEW hIL-2R</th>
<th>hIL-6</th>
<th>NEW hIL-6R</th>
<th>NEW hIL-10</th>
<th>hSAA</th>
</tr>
</thead>
<tbody>
<tr>
<td>mSAA</td>
<td>hGM-CSF</td>
<td>hTNF-α</td>
<td>hIFN-α</td>
<td>hIFN-γ</td>
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Other ELISA's available from BioSource International.

<table>
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<tr>
<th>hIL-8</th>
<th>ICAM-1</th>
<th>NEW ELAM-1</th>
<th>hTNF-β</th>
<th>hTNF-R (60 kDa)</th>
<th>hTNF-R (75 kDa)*</th>
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</table>

Cytoscreen™ Kits Available Soon:

<table>
<thead>
<tr>
<th>Stem Cell Factor</th>
<th>mlFN-γ</th>
<th>rat IFN-γ</th>
<th>monkey IFN-γ</th>
<th>rat TNF-α</th>
</tr>
</thead>
</table>

All products have been tested for biological activity, purity, and stability. CAUTION: FOR RESEARCH USE ONLY IN LABORATORY ANIMALS OR IN-VITRO TESTING. NOT FOR HUMAN OR DIAGNOSTIC USE.

Cytoscreen™ is a trademark of BIOSOURCE International, Inc. *Available soon.

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