Staff Positions in Systematics

Katsuhisa Furuta

Region, James A. Stork

Surveys of Some Recent Results in Operant
Theory. Vol. 2. John B. Conway and Bernard B. Morell,
Based on a lecture series, Bloomington, IN, 1985–86.

The University of California, Davis, School of Medi-
cine, is recruiting for a full-time faculty position to be jointly
appointed, 50% in the Department of Pharmacology and
50% at the California Primate Research Center. The appoint-
ment will be at the level of ASSO-
CIATE PROFESSOR level commensurate with qualifi-
cations and experience. Candidates must have a Ph.D.
Equivalent experience in research and developmental phar-
macology/toxicology. Responsibilities will include teach-
ing at the medical and graduate student level.

A letter outlining research and teaching background and
identifying current research interests with curriculum vitae and the names of three references, must be
received by 1 August 1989.

Letters to: Larry C. Casey, Ph.D., Professor and Chair,
Department of Pharmacology, School of Medicine, University of California, Davis, CA 95616.

The University of California is an Affirmative Action/Equal
Opportunity Employer.
APPLIED SCIENTISTS sought, B.S., M.S., Ph.D., for environmental permitting. Prefer training and/or experience in United States. Experience sought in botany, wildlife, wetlands, CAD, GIS, water quality, statistics. Send resume to: Personnel Department, Biological and Associated Inc., Suite Forsyth Road, Orlando, FL 32807. An Equal Opportu-

nity Employer.

ASSISTANT PLANT PATHOLOGIST

WSU-PROSSER IAREC

Position is available 1 October 1989, or as soon as a qualified candidate is selected. This is a tenure-track, 100% research appointment, to conduct research on hop, grapes, and other selected crops. Candidates must assume leadership in planning and implementing re-

search programs, plant pathology, and cropping systems management. Strong background in virus and fungal diseases is desired. Position located at Washington State University's Irrigated Agriculture Research and Exten-

sion in one or more of these areas is available. Teaching where over 35 scientists work with 35 to 40 crops. Ph.D. is required; a degree or training in plant pathology is preferred. Salary is commensurate with training and experience. Ordinarily, a record of publications, trans-

cripts, and at least three letters of reference, by 1 August 1989, to: Dr. G. S. Santo, Search Committee Chair-

man, WSU-IAREC, Prosser, Washington 99350. Telephone: 509-786-2226. WSU is an Equal Opportu-

nity/Affirmative Action Educator and Employer. Members of ethnic minorities, women, veterans, handicapped, persons with disability, and/or persons between the ages of 40 to 70 are encouraged to apply.

ASSISTANT PROFESSOR

APPLIED MATHEMATICS

Assistant professor level of applied mathematics. This is a tenure-track position. A person is sought with an active research program in the application of mathemat-

ics and/or statistics to ecology and occupational medi-

cine. Candidates are sought who have an interest in the mathematical modeling of biological events. Current research programs involve modeling carcinogen bio-

chemistry, neurotoxicity of chemicals, pharmacokinetics of xenobiotic chemicals, deposition of chemicals in the respiratory tract and cancer surveillance. Active collabo-

ration in the above areas is also encouraged. Sufficient computational facilities, including supercomputing, are available. Teaching responsibility for basic statistics and decision theory to medical and graduate students. Excellent computational facilities, including supercomputing, are availa-

(bility. Send curriculum vitae and names of five references to: Dr. D. B. Menzel, Professor and Chairman, Depart-

ment of Community and Environmental Medicine, University of California, CA 92122. The University of California is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT RESEARCH SCIENTIST FLOW CYTOMETRY: New York University (NYU) Medical Center is seeking an individual to operate and manage a flow cytomley facility. The facility has an Ortho 5011 dual laser sorter and a FAC Scan analyzer. It is a core laboratory and serves the needs of a diverse group of scientists engaged in basic research in immunology, hematology, molecular biology, and cell biology. Re-

sponsibilities include operation, troubleshooting, and maintenance of the sorters, data analysis, collaborative experimental design, and training/teaching of users. Can-

didate must have a minimum of 3 years experience with an Ortho or equivalent and a bachelor's degree in science plus equivalent experience. Excellent salary and benefits package. Send curriculum vitae to: Joan Harmon, Personnel Department, NYU Medical Center, 400 East 29th Street, New York, NY 10016. Equal Opportunity Employer M/F.

ASSISTANT RESEARCH SCIENTIST IN ENDOCRINOLOGY with experience in measurement of steroid receptors in various tissues. Experience in the measurement of hor-

mone action in the Department of Physiology and Endocrinology. Ph.D. in endocrinology with 4 years of relevant experience is preferred. Salary: $25,000 per an-

num. Qualified applicants apply with resume to: Geor-

gia Department of Labor, 601 Greene Street, Augus-


ASSISTANT PROFESSOR

Tenure-track assistant professor position for individual with research interests in nutrition and international health or related fields. Ph.D. in International Health and Public Health Nutrition has opportunities for field research in Latin America and the Caribbean. Individuals with strong laboratory backgrounds and an interest in international development are encouraged to apply. The successful applicant will have a Ph.D. or M.D. degree with postdoctoral research experience and good potential for supporting independent research. Send curriculum vitae and three letters of reference to: Dr. Jose O. Alvarez, Search Commitee, 303-1 Tidelands Hospital, Medical Center, P.O. Box 1195, University of Washington at Birmingham, Birmingham, AL 35294. Telephone: 205-934-1732. UAB is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS

Tenure-track position with a joint appointment in the Department of Ophthalmology and Biochemistry and Molecular Biology. This position is for an individual interested in conducting independent research in the molecular biology of the visual system. We are particular-

ly interested in conducting this research in a collegial envi-

ronment, gene-related disease processes, and DNA repair and mutation. Applicants should have strong postdoctor-

al experience in molecular biology and a good publication record. Columbia University takes Affirm-

ative Action to ensure Equal Opportunity. Send curriculum vitae and names and addresses of three references to:

College of Physicians and Surgeons

Columbia University

630 West 166th Street

New York, NY 10032

ASSISTANT PROFESSOR

CARDIOVASCULAR/BIOCHEMICAL PHARMACOLOGY

Applications are invited for a tenure-track assistant professor position in the Department of Pharmacology and Division of Cardiovascular Disease at the University of Alabama at Birmingham. Applicants should have a Ph.D. in relevant area with two or more years of postdoctoral training. Interest and expertise in endothelial cell biology and function in vivo and in vitro, EDRFs and EDCFs, signal transduction and second messenger studies is desired. The successful candidate will be expected to develop an independent research program with outside funding. Salaries include start-up funds. Send curriculum vitae and three letters of reference to: Dr. David D. Ku, Search Committee Chairman, Department of Pharmacology, UAB Station Box 402, Birmingham, AL 35294. UAB is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR

PHYSIOLOGY AND BIOPHYSICS

Three tenure-leading faculty positions are available at the assistant or associate professor levels. Candidates should be trained in either microcirculatory control, neural control of the circulation or cellular or molecular cardio-

vascular physiology. Applicants must have postdoctoral experience plus 2 years of postdoctoral experience is required. Faculty are expected to develop active independent research programs and to participate in the teaching programs of the department. Salaries, benefits, and set-up funds are attractively competi-

tive. Applicants should submit curriculum vitae, a letter of research goals, names and addresses of three references by 30 June 1989 to:

Irving H. Zucker, Ph.D.

Chairman

Department of Physiology and Biophysics

University of Nebraska College of Medicine

42nd and Dewey

Omaha, NE 68105

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

ASSISTANT PROFESSOR (RESEARCH SCHOLAR)

DEPARTMENT OF MEDICINE

UNIVERSITY OF ALBERTA

Applications are invited for the position of assistant pro-

fessor (research scholar) in the area of renal physiology. Qualifications include a Ph.D. or M.D. degree and a demonstrated outstanding ability for independent re-

search. The successful candidate will work in the depart-

ment's teaching program (both graduate and under-

graduate) and other academic activities. The position will depend upon funding through an external agency such as The Alberta Heritage Foundation for Medical Research, and the effective date of employment is depen-

dent upon the source of the appointment. The University of Alberta is committed to the principle of equality in employment. Interested applicants should submit their curricu-

lum vitae, a letter of proposed research, and the names of three referees by 30 June 1989 to:

Dr. Peter K. T. Pang

Professor and Chairman

Department of Physiology

University of Alberta

Edmonton, Alberta

T6G 2H7

ASSOCIATE INVESTIGATOR. Research in signal transduction in human microvascular disease and thera-

py. This is a hard money position to work with digital image analysis and fluorescence spectroscopy on an NIH-funded project. Background in computers, U.S. and/or M.D. signs and cell biology desirable. Ph.D./M.S. or equivalent experience. Position can be structured for postdoctoral applicants as well. Position available immediately. Send curriculum vitae to: Thomas D. Coates, M.D., Division of Hematology, Childrens Hospital of Los Angeles, 4650 Sunset Boulevard, Los Angeles, CA 90027. Telephone: 213-669-2352.

ASSOCIATE RESEARCH SCIENTIST: Execution of synthetic organic techniques involved in research in chemistry of antifungal agents and separation science in an effort to realize new and novel chemical structures. Isolate and characterize new derivatives involving use of high-pressure liquid chromatography equipment. Use of various sophisticated spectroscopic instruments to ascer-

tain structure and purity. Use of high field nuclear magnetic resonance and mass spectrometry. Knowledge of computer for use in experimental design and statistical analysis. Experience with instruments and software desirable. Position involves a 40-hour work week Monday through Friday. Send curriculum vitae to: J.G. # 3049023, Job Service Technical Unit, Connecticut Department of Labor, 200 Foley Brook Boulevard, Wethersfield, CT 06109.

RESEARCH ASSOCIATE BIOCHEMIST

AND/OR JUNIOR FACULTY POSITION

Multidisciplinary group interested in developing novel therapeutic strategies for melanoma therapy based on cytotoxic or melanoma specific immune responses. A Ph.D. chemist/ biochemist with experience related to melanin synthesis, intermediary metabolism, or anti-melanoma pharmaceu-

tical development. Unique opportunity for creative sci-

ents to work independently and in collaboration with a team of organic chemists, biochemists and cell biologists in a well-funded laboratory with modern facilities for synthetic, organic and radiolabeling of new drugs, analyti-

cal biochemistry, tissue culture and in vivo animal stud-

ies. Competitive salary commensurate with education and experience. The University of Nebraska is an Equal Opportunity/Affirmative Action Employer. Interested appli-

ants should send curriculum vitae to:

William D. Bloomer, M.D.

Professor and Chairman

Department of Radiation Oncology

University of Pittsburgh

250 Lothrop Street

Pittsburgh, PA 15213
POSITIONS OPEN

BIOCHEMIST: Position open for biochemist. Primary responsibilities: not more than 20% of time teaching medical biochemistry to medical students and at least 80% of time for research. Please send curriculum vitae detailing teaching experience, research interests, grant track record and the names of three references to: Dr. Arnold L. Nagler, Associate Dean, Basic Sciences, New York College of Osteopathic Medicine, Old Westbury, NY 11568. Affirmative Action/Equal Opportunity Employer.

BIOLOGICAL SCIENCE ADMINISTRATOR. Business manager of Biology Department, Texas A&M University. Senior staff member, responsible for non-academic matters of 40-faculty member department. The Department conducts research and teaching in a range of biological fields with competitive research funding exceeding $3 million annually. Will plan and supervise fiscal management, $3.25-million departmental budget, and administrative activities; supervise support staff. Required: bachelor's degree in science, business or related field, 2 years of experience in higher education administration. Preferred: Previous experience in research administration and acquisition of extramural funding, and a biological science background. Salary: commensurate with experience. Send curriculum vitae and name of three references by 15 June 1989 to: T. C. Hall, Head, Department of Biology, Texas A&M University, College Station, TX 77843-3258. TUMU is an Affirmative Action/Equal Opportunity Employer.

BIOLOGY: Tenure-track position at the ASSISTANT PROFESSOR level. Starting date is 15 August 1989. Emphasis will be vascular plant taxonomy. Ph.D. required by starting date. Successful applicant will participate in the undergraduate/graduate program in biology and will develop a research program in plant taxonomy. Teaching responsibilities will include plant taxonomy, possibly mycology and economic botany. The selected candidate will also participate in our freshman biology course for nonmajors. Submit letters of application, curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. George R. Hoffman, Chair, Department of Biology, University of South Dakota, Vermillion, SD 57069. Preference given to applications received by 25 May 1989. Equal Opportunity/Affirmative Action Employer.

CELLULAR BIOLOGIST. The David M. Clark Center, Arkansas Children's Hospital invites applications for a tenure-track assistant professorship beginning fall 1989. Applicants should have a Ph.D. and 2 years of postdoctoral training. The appointee will join investigators focusing on pediatric cardiac and lung disease. The individual would establish independent research and participate in collaborative projects involving pulmonary vascular or myocardial cells. Prior experience with these tissues is desirable but not a requirement. Opportunities for teaching and joint appointments exist with the basic sciences divisions of the University of Arkansas for Medical Sciences. Send curriculum vitae, statement of research interest, and names of three references to: A. Francine Tryka, M.D., The David M. Clark Cardiovascular Center, 800 Marshall, Little Rock, AR 72202.

CELLULAR IMMUNOLOGIST. Full-time research position available with immunology/molecular biology group studying human autoimmune diseases. Ph.D. and extensive experience with B cell cloning and B cell studies required. Experience with cell sorting using Coulter Cytometer desirable. Send résumé to: Dr. Vincent Agnello, ENKRI Veterans Hospital (151), 200 Springs Road, Bedford, MA 01730.

CHAIRMAN, DEPARTMENT OF MEDICINE

Four hundred thirty-five-bed acute-care community teaching hospital seeking Chairman, Department of Medicine. Responsible for Internal Medicine Residency Program and Transitional Year Residency Program. Serves as Administrative Physician in Department of Medicine. Appear by staff member responsible for non: Richard D. Herman, M.D., Chairperson, Search Committee for Chairman, Department of Medicine, St. Luke's Hospital, 801 Ostrow Street, Bethlehem, PA 18015. An Equal Opportunity Employer.

Opportunities in Pharmaceutical Research

Continued expansion at Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, has created the following openings in our Reproductive Toxicology Section:

Senior Scientist

The duties of this position will be to study the deleterious effects of new drugs on the reproductive processes. The successful candidate will assist in the design, execution and analysis of studies which focus on the mother, embryo/fetus, newborn and weaning. The position will also involve supervisory responsibilities and drug discovery team participation.

Requirements for this position include a Ph.D. in Reproduction Biology or closely allied field, 1-3 years' post-doc experience in reproductive toxicology, knowledge of GLPs; experience in embryo culture techniques is necessary.

Assistant Scientists

The duties of these positions will be to conduct reproductive and developmental toxicology studies and will include neuropharmacological/behavioral testing.

Requirements for these positions include a BS degree in biological sciences and 1-5 years' experience in these areas: animal handling, safety evaluation studies, neuropharmacological/behavioral testing and offspring evaluation techniques.

Qualified candidates should send resume, salary requirements and reference list (indicating position desired) in confidence to: Ms. S. Hulquisset, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, Michigan 48105.

"Equal Opportunity in Action"

Research Scientist/Pharmacokinetics

Triton Biosciences Inc., a subsidiary of Shell Oil Company located in the San Francisco Bay Area, is a fully integrated pharmaceutical and diagnostics company focused on product development opportunities in the areas of cancer, AIDS and other serious diseases. We currently have an opening for a Pharmacokinetics Research Scientist.

Your duties will entail design of pre-clinical and clinical pharmacokinetic studies for pharmaceutical compounds, selecting contract laboratories to perform these studies, analyzing pharmacokinetic data and writing reports and summaries for regulatory submission. Experience with pharmacokinetics computer programs, particularly NONLIN, is highly desirable. You should have a PhD in Pharmacetics or Pharmaceutical Chemistry with a research emphasis in pharmacokinetics and 0-2 years of relevant experience. Some travel is required.

Triton offers competitive salaries and benefits, including relocation assistance. For consideration, send your resume with cover letter highlighting your qualifications and including the names of three references to Triton Biosciences Inc., Employment—Dept. JJB, 1501 Harbor Bay Parkway, Alameda, CA 94501. EEO/AA employer.

Triton Biosciences Inc.
POSITIONS OPEN

CLINICAL LABORATORY HEMATOLOGIST

The University of Washington School of Medicine, Department of Laboratory Medicine, is seeking a faculty member at the assistant level or a junior faculty of the Clinical Hematology Laboratories at the University Hospital. Candidates should be Board-certified in clinical pathology and have demonstrated competence in the diagnosis of lymphomas, leukemias, and immunodeficiency diseases with expertise in flow cytometry, immunocytochemistry, and molecular pathology. A basic curriculum vitae and a letter of interest is due by 30 June 1989 to: J. C. Deter, M.D., Department of Laboratory Medicine, University of Washington, Seattle, WA 98195. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR

DIRECTOR CLINICAL RESEARCH CENTER

The Medical Research Institute of Delaware at the University of Delaware at Newark.

DIRECTOR MEDICAL RESEARCH INSTITUTE OF DELAWARE (MRID)

The Medical Research Institute of Delaware seeks a medical research scientist/administrator for an exciting career opportunity involving the development and direction of its Clinical Research Center (CRC). Contributing members to the Institute include Du Pont Company, ICJ America Inc., and ICJ Medical College, the Medical Center of Delaware, and the University of Delaware. The CRC will focus initially on clinical pharmacology and medical education and will be involved with studies of the faculty of the contributing institutions. The Director must have ability in research administration and will interact with medical, education, and health care communities, including state and national agencies. Candidates should have an M.D. degree, Board certification with eligibility for medical licensure in Delaware, and credentials warranting a faculty appointment at the Jefferson Medical College and the University of Delaware. Send letters of application, curriculum vitae, and three letters of reference to: Robert H. Chodoff, M.D., M.P.H., Christiana Hospital, P.O. Box 6001, Newark, DE 19718. MRID is an Equal Opportunity Employer.

DIRECTOR

OREGON INSTITUTE OF MARINE BIOLOGY

The University of Oregon is seeking a resident Director for the newly rebuilt Oregon Institute of Marine Biology (OIMB) in Charleston, Oregon (starting date: September 1990). Applicants with an internationally recognized basic research program, evidence of administrative skills, and demonstrated commitment to excellence in undergraduate and graduate education should send a letter of application, curriculum vitae, and recent publications and have letters sent from three referees to: Chair, OIMB Search Committee, Department of Biology, University of Oregon, OR 97403, phone: 503-686-4526. Deadline for applications: 30 June 1989. Target decision date, September 1989 or earlier.

The Director's position will be tenable in the Department of Biology at the associate or full professor level; salary is negotiable. We especially seek a marine ecologist as director who will complement our present departmental strengths in population ecology and physiology. The Institute operates year-round with resident faculty, staff, and visiting scientists. It has immediate access to estuarine salt marshes and mud flats, diverse rocky intertidal habitats, high energy beaches, and open ocean.

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

The Division of Endocrinology/Metabolism/Clinical Nutrition, Department of Medicine, at Oregon Health Sciences University, has a position available for a DIVISION HEAD. Must have a proven record of accomplishment in clinical medicine, teaching, research and administrative activities at the associate professor/professor level. The Division has six full-time faculty positions with interests in lipid and calcium metabolism, diabetes, and hyperparathyroid and hypercalcemia disorders. Interested candidates should send curriculum vitae along with the names and addresses of three references to: Dr. William M. Bennett, M.D., Department of Medicine, Oregon Health Sciences University, L4-643, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201. OHSU is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

THE UNIVERSITY OF TEXAS AT DALLAS

DIRECTOR, CENTER FOR INSTITUTE FOR ENVIRONMENTAL SCIENCES

The University of Texas at Dallas seeks applications for a non-faculty research scientist position as Director of the newly established Institute for Environmental Sciences (IES). The director will be responsible for the design, implementation, and evaluation of model research. IES will address significant environmental issues by conducting multidisciplinary research in a number of areas, including social, economic, and political economic concepts. Aggressive leadership will be required to launch the institute and to persuade specialists from diverse backgrounds to participate in IES research. The candidate must be an established scientist with expertise in computer-based modeling, the ability to secure external funding, and experience administering multidisciplinary teams. Preferred areas of specialization include: systems ecology or surface or groundwater hydrology. Salary will be commensurate with experience and qualifications. Application must be received by 15 June 1989 (indication of sex and ethnicity is requested for statistical purposes but is not required) and must contain a resume and list of references who can be contacted. Applications should be sent to: Search # 290

The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR, OFFICE OF BIOLOGICAL PRODUCT REVIEW

In addition, physicians may be eligible for a retention bonus of up to $20,000 per annum.

Incumbent directs 90 professional and support staff in the evaluation and regulation of biological products presented for investigational use or for market release. Applicants should have an M.D. degree from an approved medical school or a doctorate in a related biomedical or physical science; experience at the executive level in planning, directing and evaluating biomedical scientific research or regulatory programs and activities which demonstrate the ability to effectively coordinate and productivity integrate the multidisciplinary efforts of a scientific, professional and technical workforce; administrative or managerial experience at the executive level which demonstrates strong leadership abilities in a scientific environment; and experience which indicates the ability to implement Equal Employment Opportunity Programs.

Application for Federal Employment, SF-171, is required and must be received by 12 June 1989.

The University of Texas at Dallas is an Equal Opportunity/Employer.

DIRECTOR, MEDICAL RESEARCH CENTER

The Director's position will be tenable in the Department of Biology at the associate or full professor level; salary is negotiable. We especially seek a marine ecologist as director who will complement our present departmental strengths in population ecology and physiology. The Institute operates year-round with resident faculty, staff, and visiting scientists. It has immediate access to estuarine salt marshes and mud flats, diverse rocky intertidal habitats, high energy beaches, and open ocean.

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

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Positions Open

Farm Advisor—Groundwater Toxicology (Santa Clara, Alameda, Contra Costa and San Mateo Counties). Headquarters: Santa Clara County. The University of California, Division of Agriculture and Natural Resources, Cooperative Extension is seeking a career-track academic candidate to develop, conduct, and evaluate educational and research programs to address specific, identified problems within the subject area of groundwater toxicology. Groundwater pollution and toxic materials for the residents of southern San Francisco Bay Area. Minimum Master’s degree or equivalent combination of education and experience in a field related to groundwater toxicology, groundwater pollution, and/or toxic materials required. Doctorate level course work or field experience preferred. Additional course work or experience in an agricultural science preferred. Knowledge of Cooperative Extension policies and procedures desirable. Assist Affirmative Action in development and delivery of programs. Beginning salary, Cooperative Extension Assistant Advisor rank, commensurate with experience and professional qualifications. For complete description and application, contact: University of California, Division of Agriculture and Natural Resources Personnel, 6th Floor, 300 Lakeside Drive, Oakland, CA 94612-3560. Telephone: 415-987-0088. Close 30 June 1989. Refer to #A-69-065. Affirmative Action/Equal Opportunity Employer M/F/EH.

Marine Gene Probe Laboratory Dalhousie University

The Marine Gene Probe Laboratory (MGPL), recently established with funds from the Government of Nova Scotia, will occupy a leading position in basic and applied research in fish and shellfish genetics. MGPL is seeking to appoint:

Research Associates Postdoctoral Fellows Scientific Technical Staff Graduate Students

Experience of recombinant DNA and an interest in fish/shellfish genetics is essential. These are term appointments for 3 years, renewal contingent on funding. Salaries will be commensurate with experience and competitive internationally.

The MGPL is located on Dalhousie University campus in a dynamic Biology Department with strong links to the Departments of Biochemistry and Oceanography, the Canadian Federal Government Laboratories of the Department of Fisheries and Oceans, and the Bedford Institute of Oceanography. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. Other applicants will be considered if no candidates meeting the above criteria are available. Dalhousie University has a policy of Affirmative Action in hiring qualified women academic staff. Applications including a full curriculum vitae and three references should be sent to: Dr. R. W. Doyle, Marine Gene Probe Laboratory, Department of Biology, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4J1 before 15 June 1989.

Centers for Disease Control Center for Infectious Diseases Graduate of Host Factors Molecular Biologist

A position is available to study molecular and cellular responses of human lymphoid cells involved in immunodeficient, autoimmune, and/or infectious diseases. This position is with Dr. Steven McDougall, Clinical Immunology Branch, Division of Host Factors. A M.D. or Ph.D. is preferred with postdoctoral or appropriate research experience. Applicants should be capable of collaborative and independent investigations as evidenced by publications. Salary range: $34,580 to $53,460, depending on experience. To apply, please send curriculum vitae and three names and addresses of references by 1 August 1989 to:

Mr. William Nelson Personnel Management Office, Room 1/1058 Centers for Disease Control 1600 Clifton Road, NE Atlanta, GA 30333

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Scientist, Drug Metabolism Requires BS in Chemistry or Biology and 7 years' experience or an MS with 5 years' experience. Background in HPLC, knowledge of drug metabolism and demonstrated strengths in modern analytical techniques essential.

Associate Scientist, Biotechnology/Biochemistry Requires BS in Biochemistry and 4 years' experience or an MS with 2 years' experience. Background with purification and characterization of proteins is essential. Experience with techniques using column chromatography, HPLC, gel electrophoresis, and use of antibodies for detecting proteins preferred.

Assistant Scientist Will support drug safety metabolism studies at our Lafayette, NJ Toxicology/Pathology lab. Requires BS in Biological or Animal Sciences and 2 years' experience in both Histology and Necropsy techniques, or an MS degree.

We provide competitive salaries and an excellent benefits package. For prompt, confidential consideration, send resume to: Ms. P. Valendo, Schering-Plough Research, 60 Orange Street, Bloomfield, NJ 07003. We are an equal opportunity employer.

What you have in mind, we put in action.
**SENIOR RESEARCH BIOCHEMIST**

The Merck Sharp and Dohme Research Laboratories is currently offering an excellent career opportunity for a Biochemist within the Antifungal Discovery Group in the Department of Exploratory Microbiology and Genetics. The group is responsible for the identification of targets for inhibition of antifungal drugs, the development of screens with which to select potential inhibitors, and confirmation of the mode of action of new inhibitors by development of assays for specific inhibition. The successful candidate will have responsibility for establishing an independent and high caliber research program founded on the research goals of the group. The incumbent will direct and perform basic and applied research on the biochemistry of fungal processes, particularly membrane-associated functions. A Ph.D in Biochemistry or equivalent and significant postdoctoral experience is desired. Relevant interest and experience in enzyme purification, assay development and biochemical pathway dissection is preferred. Knowledge of fungal physiology and/or genetics a plus. Ability and desire to work as part of a team toward the development of antifungal antibiotics is essential.

Merck Sharp and Dohme Research Laboratories are located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. Interested candidates should submit their curriculum vitae with the names of three references and salary requirements to Ms. Dolores Barfield, Merck Sharp and Dohme Research Laboratories, P.O. Box 2000, WBD-362, Rahway, New Jersey 07085.

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This position is responsible for developing new laboratory applications and protocols for existing products, to act as a resource of technical knowledge for our marketing and technical service departments, to present technical seminars to university and industrial customers, and to participate in technical training for our field sales force.

Minimum requirements include laboratory experience in Immunology, Molecular Biology, or Protein Chemistry and a Ph. D. in a related field. Excellent communication and public speaking skills are required. This position will require approximately 10% travel. Please respond to Dept. R.M.

PROTEIN CHEMISTS
These positions are responsible for purification, conjugation and characterization of immunoreagents for diagnostic test development. Minimum requirements include a B.S. Degree in Chemistry or Biochemistry plus 2 years post-graduate experience in protein chemistry.

Preference will be given to applicants with a basic knowledge of preparative and analytical immunochemistry. Please respond to Dept. G.F.S.

At Boehringer Mannheim, we offer an exciting and challenging work environment as well as an excellent compensation and benefits program. If you meet the above requirements and would like to join an organization that is a leader in its field, we invite you to send your resume with salary history for confidential consideration. Please designate which position of interest. To inquire about other opportunities not listed above, please call our job line at (317) 945-7035. Human Resources, Boehringer Mannheim, P.O. Box 50100, 9115 Hague Road, Indianapolis, IN 48250. An Equal Opportunity Employer

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NATIONAL INSTITUTES OF HEALTH

POSTDOCTORAL FELLOWSHIPS IN HUMAN AND PRIMATE DEVELOPMENT

The Laboratory of Comparative Ethology is seeking outstanding candidates for several postdoctoral fellowships beginning October 1989, to study all aspects of human and primate development, including perceptual, cognitive, emotional, and social behaviors from infancy to adulthood. Doctoral training in psychology, biology, sociology, anthropology, or statistics is required. Candidates must be U.S. citizens or permanent residents. Salary range is from $24,000 - $27,000 depending on research experience. Relevant laboratories are directed by Drs. Marc H. Bornstein, Michael E. Lamb, John Newman, Stephen J. Suomi, and David Symmes. A CV and three letters of reference should be sent to:

Fellowship Committee
Laboratory of Comparative Ethology
NICHD/NIH
9000 Rockville Pike
Building 31, Room B2B15
Bethesda, Maryland 20892

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
MOLECULAR CELL PHYSIOLOGISTS

The Department of Physiology and Biophysics of the University of Texas Medical Branch at Galveston invites applications for tenure-track positions at the assistant, associate, and full professor levels. Individuals with demonstrated competence in molecular approaches to cell physiology are especially encouraged to apply. Candidates must hold a Ph.D. or M.D. degree. Salaries and start-up funds are highly competitive. The Department offers a stimulating scientific environment and is deeply committed to high-quality research and teaching. Send complete curriculum vitae, including publications list, brief statement of future research plans, and names and addresses of three references to: Mrs. Ann Foreman, Department of Physiology and Biophysics, University of Texas Medical Branch, Galveston, TX 77550-7002. UTMB is an Equal Opportunity/M/F/H/V/Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.

MOLECULAR GENETICIST to conduct studies on the molecular mechanisms involved in neoplastic development. Must have at least 3 years of postdoctoral experience in the identification and expression of mammalian genes. Extensive experience with viral (including retroviral) vectors in cell lines and transgenic mice that express active oncoproteins and other products in inducible and constitutive expression systems is required. Extensive knowledge of molecular techniques such as the polymerase chain reaction to identify genetic abnormality in cancer cells is required. Annual starting salary is $44,000. Submit curriculum vitae to: The Squibb Institute for Medical Research, Human Resources Department 100, P.O. Box 4000, Princeton, NJ 08543-4000. An Equal Opportunity Employer.

NEUROSCIENTIST, RESEARCH ASSOCIATE/INSTRUCTOR. Research position open immediately to study the neurophysiology of memory in basal forebrain cholinergic neurons in mammals. Candidates should have a Ph.D. in an appropriate discipline plus experience in immunohistochemistry and/or electrophysiology. Salary is $20,000/year. Starting date: September 1989. Postdoctoral experience preferred. Send curriculum vitae and name of three references to: Dr. Robert T. Matthews, Department of Medical Anatomy, Texas A&M University, College Station, TX 77843.

NEUROSCIENCES, CELL AND MOLECULAR BIOLOGISTS. Tenure-track faculty positions open in gross and microscopic anatomy. Research interests in neurosciences, cell and molecular biology, and neuroimmunology. Rank and salary commensurate with experience. Research start-up funds of $30,000/year are available. Send curriculum vitae and names and addresses of three references to: Dr. James C. Story, Chairman, Department of Anatomy, University of Alabama, Medical College, 1006 D. B. Todd Boulevard, Nashville, TN 37208, by 1 July 1989. An Equal Opportunity, Affirmative Action Employer.

OB/GYN FACULTY POSITION—POSTDOCTORAL.—The Department of Obstetrics and Gynecology, University of Oklahoma Health Sciences Center in Oklahoma City is seeking an individual with research interest in endometriosis. Training in immunology, biochemistry; Ph.D. required. Must be skilled in student and resident teaching, research design, and statistical analysis. Send curriculum vitae, letter of application, and three references to: Robert A. Wild, M.D., Associate Professor, Department of Obstetrics and Gynecology, University of Oklahoma College of Medicine, P.O. Box 26001, 485720, Oklahoma City, OK 73190.

PHARMACOLOGIST: Faculty/research, assistant professor. Ph.D. or PharmD. Qualifications and experience must include strong medical school teaching skills and research accomplishments. Interested individuals are invited to send curriculum vitae including teaching experience, statement of research interests, research background, prior and current funding, and the names of three references to: Robert O. Dean for Academic and Research Affairs and Chairman, Department of Pharmacology/Toxicology and Experimental Therapeutics, New York College of Osteopathic Medicine, Box 170, Old Westbury, NY 11568.

OYGEN HEALTH SCIENCES UNIVERSITY CENTER FOR RESEARCH ON HUMORAL VITAMIN D ACTION

ENVIRONMENTAL TOXICOLOGY NEUROTOXICOLOGICAL SCIENCES

Recently newly established, the department is seeking candidates to fill positions open on the faculty. Applicants should be committed to the basic research on molecular and cellular mechanisms underlying adverse actions of chemicals on the mammalian nervous system. Research on the toxicokinetics, toxicodynamics, and protective mechanisms against neurotoxicants is currently being conducted. Additional areas of toxicological research include developmental neurotoxicology and neurodevelopment and neurobehavioral science. Must have Ph.D. Send curriculum vitae, including a statement of research interests, and names and addresses of three references to: Dr. Geoffrey A. D. Rice, Associate Director of Research, Department of Environmental Health Sciences, University of Washington, Seattle, WA 98195. An Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGIST OF SPACEFLIGHT

Physiologist to manage NASA Space Shuttle experiments on cardiovascular and renal responses to weightlessness in small and large primates. Ph.D. required with strong academic record of research and publications. Five-year commitment. Send resume and three references to: W. D. Henney, M.D., Ph.D., Oregon Health Sciences University, 1385, 3118 S.W. Sam Jackson Park Road, Portland, OR 97201. Equal Opportunity Employer.

POSTDOCTORAL FELLOWS: One position available to participate in studies of DNA repair in mammalian cells. Will join research group utilizing enzymatic, mutational, and molecular techniques to elucidate pro- cesses of DNA repair induced by x-rays and anticancer alloying agents. Must have previous experience in biochemistry and/or molecular biology. Starting salary depends on Ph.D./M.D. status. Send resume and three references to: Dr. Susanne Churchill, Associate Director, Institute for Circadian Physiology, 677 Beacon Street, Boston, MA 02215; by 1 June 1989.

POSTDOCTORAL FELLOW: A postdoctoral position is available in the Department of Cardiothoracic Surgery of the New England Medical Center Hospitals. Interested candidates should have a strong background in cardiology and be available to begin work by July 1989 or earlier. Research will concentrate on the role of humoral mediators in solid organ preservation for transplantation. Salary commensurate with experience. Send curriculum vitae to: Raymond D. O. Duran, Associate Director and Academic and Research Affairs and Chairman, Department of Pharmacology/Toxicology and Experimental Therapeutics, New England Medical Center, Box 170, Old Westbury, NY 11568.

POLLUTION-CONTROL TECHNICIAN to conduct tests and field investigations to obtain data for use by company engineers in planning and conducting various flow studies and sewer systems flow measuring devices, using computerized instrumentation monitoring systems. Determines sources and methods of controlling pollutants in water and soil utilizing knowledge of engineering and biology. Collects samples of gases from sewer systems to assist in evaluation of atmospheric pollutants. Collects samples of gases from stream and pollution problem. Prepares samples to testing, records date, and prepares summaries and charts for review. Must have a high school education. Must be able to travel to job sites which may be located anywhere in the United States. Placing instruments in sewer systems by going through manholes is required. Salary is $57,000 per year plus per diem and company van for travel. Listed to: Mrs. Armstrong, Alabama State Employment Service, P.O. Box 428, Huntsville, AL 35804. Job Order No. ALDS9246.

POSTDOCTORAL FELLOW: Two positions: (i) analysis of rat liver adhesion molecules (ii) characterization of hepatic or pancreatic stem cells. Competitive salaries. Candidates with a Ph.D. or M.D., and experience in molecular genetics, developmental, or immunology preferred. Should submit CV, research reprints, and names of three references to: Dr. Douglas Foxton, Medical Oncology, Rhode Island Hospital, 222 Richmond St., Providence, RI 02903. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW IN INSECT BEHAVIOR: A recent Ph.D. graduate in animal behavior, ecology, entomology or a related field is sought to collaborate on studies of sexual selection and behavior in field crickets. Research includes field work and studies in a modern and well-equipped laboratory. Responsibilities include assisting in supervision of graduate and honors research students and some undergraduate teaching. The initial appointment is for 1 year and is renewable. Intended starting time is fall/winter, 1989. Send curriculum vitae, letter of application, three references, and a brief description of research experience to: Dr. William H. Cade, Department of Biological Sciences, Brock University, St. Catharines, Ontario, Canada L2S 3A1. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Brock University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available June 1989 or thereafter, for studies of bacterial chromosome structure, involvement of DNA gyrase, and functions of prokaryotic repetitive sequences. This project will employ biochemical, recombinant DNA, and modern molecular techniques. Experience in biochemistry and enzyme purification preferred. Electron microscope expertise desirable. Send curriculum vitae, letter of application, three references, and a brief description of research experience to: Dr. G. Ferro-Luzzi Ames, Biochemistry Department, University of California, Berkeley, CA 94720.

POSTDOCTORAL POSITION available immediately to study regeneration in the central and peripheral nervous system. Both in vivo and in vitro models will be used. Experience with animal models, cell biology, immunocytochemistry and tissue culture desirable. Send curriculum vitae, names, addresses, and telephone numbers of three references, to: R. Pitas, Gladstone Foundation Laboratories for Cardiovascular Disease, University of California, P.O. Box 40608, San Francisco, CA 94140-0608.

POSTDOCTORAL POSITION in TUMOR VIROLOGY NYU MEDICAL CENTER

We have recently discovered RNA covaantly linked to SV40 Tag and to the oncogene product p53. The specific nature of the viral DNA-protein interaction and the oncogenic transformation will be studied. Must be U.S. citizen or permanent resident. Send curriculum vitae and names of three references to: Dr. Alan Carroll Department of Pathology New York University Medical School 550 First Avenue New York, NY 10016

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SCIENCE, VOL. 244
**POSITIONS OPEN**

**POSTDOCTORAL OR RESEARCH POSITION AVAILABLE IN CELLULAR IMMUNOLOGY FOR PH.D. OR M.D.**

Studies deal with immunopharmacology of immunosuppressive agents including mechanisms of action at the cellular and molecular levels, and in tolerance induction as part of a major program in transplantation. Salary is commensurate with experience and begins at $24,000.

Send curriculum vitae together with names of three references to: Marvin R. Garovoy, M.D., Director, Immunogenetics and Transplantation Laboratory, University of California, 513 Panansus Avenue, Health Sciences East, Room 520, San Francisco, CA 94143.

The University of California is an Equal Opportunity/Affirmative Employer. Women and minorities are encouraged to apply.

**POSTDOCTORAL POSITION available for a scientist interested in the enzymology and molecular biology of peptide hormones including angiotensin, natriopeptins and hypothalamic peptides. Send résumé and three references to:**

Professor I. B. Wilson
Department of Chemistry and Biochemistry
University of Colorado
Boulder, CO 80309-0215

The University is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION IN HIV RESEARCH FOR NUCLEIC ACID CHEMIST**

A postdoctoral/research associate position is available immediately. We need a colleague to join in our effort to scale up synthesis of antisense oligonucleotides and to join in collaborative studies on their chemotherapeutic effect against HIV and other viral diseases. Both unmodified and internucleotide phosphate backbone modified analogs of oligonucleotides are under study. [Proc. Natl. Acad. Sci. U.S.A. 85, 5307-5311 (1988); ibid., pp. 7079-7083; ibid., pp. 7448-7451.] The candidate should have a strong background in synthetic nucleic acid chemistry. Salary will depend on degree of experience. Contact: Dr. Sudhir Agrawal (508-842-8921, extension 325) or Dr. Paul Zamecnik (508-842-8921, extension 331) or else send curriculum vitae and names and telephone numbers of three references to either of the above: c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545.

An Equal Opportunity/Affirmative Action Employer M/F/H.

**POSTDOCTORAL POSITION MOLECULAR ENDOCRINOLOGY**

Available summer 1989 to study glycoprotein hormone gene expression using recombinant DNA and gene transfer procedures. Salary competitive. Send résumé and three references to: Dr. Margaret A. Shupnik, Box 511, University of Virginia Health Sciences Center, Charlottesville, VA 22908. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS**

Two postdoctoral positions are available in a multidisciplinary program to study the molecular biology of the largest and most destructive group of viral plant pathogens, the potyviruses. Laboratories in the Departments of Biochemistry, Agronomy and Plant Pathology at the University of Kentucky are engaged in studies of synthetic infectious RNA transcripts, transgenic plants carrying potyviral genes, cistron mapping, polypeptide processing and mechanisms of viral replication and proteolytic activity on potyviruses. The salary is $20,000 and positions are available immediately. Applicants should submit curriculum vitae and name of three references to:

Robert E. Rhodes
Arthur G. Hunt
Department of Biochemistry
Department of Agronomy
MS 607 Medical Center or N2121 Agricultural Science North
University of Kentucky
Lexington, KY 40536

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

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**POSTDOCTORAL FELLOWSHIPS**

The Departments of Structural and Biophysical Chemistry and Enzymology now have positions for Post-Doctoral Scientists. These positions are available for one to three years to highly qualified individuals for research on a wide range of topics associated with protein-related drug targets. Opportunities are available in the following areas:

- **Synthetic Peptide/Protein Chemistry and Biochemistry.**
- **Mass Spectrometry of Proteins and Glycoproteins.**
- **X-ray Crystallography of Macromolecules.**
- **NMR Studies of Macromolecular Systems including Proteins, Protein-drug and DNA-drug Interactions.**
- **Computational Chemistry and Knowledge-based Modelling.**
- **In vitro Enzymology.**
- **Studies of Metabolic Control Pathways in Cultured Cells.**

Opportunities exist for collaborative interactions with a wide range of scientists at Glaxo and at the neighboring universities. Publication of research in leading journals and attendance at national scientific meetings and symposia are encouraged.

We offer excellent compensation and benefits, a stimulating work environment that fosters innovative research and professional growth. Candidates interested in these positions should send their curriculum vitae, together with the names of three references, to:

Human Resources Department
Job #PF

Glaxo Inc.

P. O. Box 13398
Research Triangle Park, NC 27709

(No Phone Calls. Please)
No Private Agency Referrals. Please

An Equal Opportunity Employer M/F/H/V

Paving the way to a healthier world.
ADVANCED

MAKE AN IMPACT

APPLIED BIOSYSTEMS INC, the leading international manufacturer of instrument-reagent systems for biotechnology research, is seeking accomplished professionals to be located at our facilities in the San Francisco Bay Area.

SCIENTISTS AND ASSOCIATE SCIENTISTS

Positions are currently available for protein chemists, molecular biologists, organic and analytical chemists with strong backgrounds in structural chemistry and separation sciences.

CHROMATOGRAPHY—conduct research in promising areas for micromolecular separations. Expertise in instrumentation dealing with HPLC and its use in protein or DNA isolation/characterization needed.

ELECTROPHORESIS—explore and develop novel directions in the separation of biomacromolecules and their constituents. Analytical capillary electrophoresis and preparative isolation by HPLC are areas of current interest.

SEQUENCING—investigate/develop new chemical methodologies for the analysis of proteins. Experience in sample preparation, protocol development and methods troubleshooting required.

A BS, MS or PhD in Biochemistry, Analytical or Organic Chemistry, or an equivalent combination is required. Practical laboratory experience from 1-5 years and indepth understanding of instrumentation essential. (Ref. SC89KW)

Qualified candidates may send their resume, (INDICATING THE REFERENCE CODE), to Applied Biosystems, Inc., H.R. Dept., 850 Lincoln Centre Drive, Foster City, CA 94404. We are an equal opportunity employer.

Applied Biosystems

Regulatory Toxicologists (Senior and Postdoctoral)

The Agricultural Research Division of American Cyanamid Company has a long-standing and highly successful commitment to the discovery and development of products to improve worldwide crop and livestock production. We are growing rapidly and currently have the following opportunities at our laboratory and experimental farm complex ideally located near Princeton, one hour from New York City and Philadelphia.

Senior Toxicology Program Manager

The successful candidate will have a PhD in Toxicology or related medical field and 3 to 5 years of industrial, government or contract laboratory experience in toxicology. Knowledge of whole animal toxicology is essential. You will design, monitor and review the full range of toxicity testing performed in-house or on-contract for EPA and FDA registrations of pesticides and animal drugs.

Postdoctoral in Regulatory Toxicology

We offer a postdoctoral position which requires a PhD in Toxicology or related medical field.

American Cyanamid offers a competitive compensation and benefits package. For prompt and confidential consideration, please forward your resume and salary requirements indicating the position of your specific interest, to the Employment Office, Dept. SC-55, American Cyanamid Company, Agricultural Research Division, PO. Box 400, Princeton, New Jersey 08540. An Equal Opportunity Employer, M/F/H/V.

CYANAMID

THE COMMITMENT GROWS EVERY DAY.
Ph.D. SCIENTISTS
Molecular and Cell Biology Research

For more than a century, scientists at Eli Lilly and Company have developed innovative, high quality pharmaceutical products. Lilly invests over $300 million annually in research and development programs. More than 3,000 scientists at the company’s Lilly Research Laboratories are pursuing creative research programs that involve many important health care needs.

To further build its research capabilities, Lilly is seeking self-motivated, innovative scientists to plan, organize, and manage programs for the Molecular and Cell Biology Division.

The ideal candidates will have a Ph.D. in biochemistry or molecular biology and at least two years of postdoctoral research experience in one of the following areas:

- Receptor cloning and/or study of mechanisms that modulate receptor response to ligand binding.
- Signal transduction downstream from a receptor through G-proteins, kinases and the like.
- Transcriptional regulation of receptor genes.

In addition, these scientists must have the leadership capabilities needed—technical, communication, interpersonal, and organizational skills—to build a research program.

Eli Lilly and Company is committed to scientific excellence. Lilly provides a stimulating professional atmosphere with many opportunities for collaborative, multidisciplinary research. The company offers an attractive total compensation program. Entry level and salary will be based upon each candidate’s experience.

For prompt consideration, please forward your curriculum vitae to:

John W. Crooks, Manager
Ph.D. Recruitment (MCB)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

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Senior Research Biologist

FMC CORPORATION, a Fortune 150 leader in the field of Agricultural Chemical Research, is looking for a Senior Research Biologist to support our insecticide research.

This position will be responsible for the laboratory profiling of potential insecticide field candidates, including test design, result interpretation and follow-up testing. This individual will also participate in the selection and recommendation of candidate insecticides for initial field testing.

As Research Biologist you will be responsible for design and coordination of FMC’s field screening and field evaluation program on a worldwide basis including the analysis of field results and the preparation of product profiles prior to hand-off to full commercial development.

In addition, the position offers staff supervisory, safety and security responsibilities. Individual will also have the opportunity to participate in frequent presentations to management.

Job candidates must possess a PhD in Entomology with 3-5 years post-PhD industry experience desirable, including experience conducting field trials involving major pest crop market segment. Individual should also be familiar with the strengths and weaknesses of commercial insecticides.

FMC offers an R & D Center in a prime location, challenging work, and excellent benefits and a salary commensurate with your experience. Please forward your resume to: Melody Evans, Dept. 89-24, FMC CORPORATION, Chemical R & D Center, Box 6, Princeton, NJ 08543.

Females are encouraged to apply. Equal Opportunity Employer, M/F.

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Associate Director / Director Regulatory Affairs

Merck, Sharp and Dohme Research Laboratories, the world leader in Pharmaceutical Research, is seeking an experienced scientist for the position of Associate Director/Director for its Regulatory Affairs Department in Blue Bell, PA. The successful candidate will have an M.D. or Ph.D. and possess 5 to 10 years scientific experience in at least two of the following areas: Molecular Biology, Virology, Vaccine Development, Quality Control, Clinical Infectious Disease or Regulatory Liaison.

Major responsibilities will include liaison with regulatory agencies worldwide regarding a wide range of issues involving vaccines, biologics and anti-virals, providing the Company with input regarding worldwide regulatory requirements, and directing our research laboratories in meeting these requirements.

Merck offers excellent salary opportunities and a benefits program that includes a tax sheltered income program, group life insurance, major medical and dental coverage, educational assistance and relocation. Our facilities are located in an attractive suburban Philadelphia area.

Interested candidates should submit their resume and salary requirements in complete confidence to:

Janet E. Adams (BL1-1)

MERCK SHARP & DOHME RESEARCH LABORATORIES
Department 89B-4
West Point, PA 19486
EEO/AA/V/H Employer

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Merck & Co., Inc.
The Department of Anesthesia of The Pennsylvania State University College of Medicine and the University Hospital of The Milton S. Hershey Medical Center is inviting applications for a research faculty position to begin in the Summer or Fall of 1989. The Department presently has four areas of concentration in research related to physiology and pharmacology of the anesthetic state: including cardiovascular, pulmonary, neurophysiological and neuropharmacological areas.

We are seeking candidates with a Ph.D. or M.D. qualification with substantial post doctoral experience in one or more of the following areas: mechanisms of drug action, neurotransmitters, membrane receptors, signal transduction, ion-channels, and mechanisms of consciousness. We are particularly interested in candidates who are able to relate their research to the questions of mechanisms of pain and anesthesia. Significant research accomplishment and demonstrated ability to obtain independent funding are essential. Excellent opportunities exist for research collaboration and a joint appointment in a basic science department and participation in the Neuroscience Program.

Applicants should submit, prior to May 26, 1989, curriculum vitae, reprints, statement of current and planned research interests, and names of at least three references to:

Julien F. Biebuyck, M.B., D.Phil.
Eric A. Walker, Professor and Chairman
Department of Anesthesia
THE PENNSYLVANIA STATE UNIVERSITY
COLLEGE OF MEDICINE
THE MILTON S. HERSHEY MEDICAL CENTER
P.O. Box 858
Hershey, PA 17033

Equal Opportunity/Affirmative Action Employer

DEPARTMENT OF SURGERY
POSTDOCTORAL RESEARCH FELLOWSHIPS
METROHEALTH MEDICAL CENTER
CASE WESTERN RESERVE UNIVERSITY

The Surgery Department at MMC/CWRU announces the availability, beginning July 1, 1989, of several Postdoctoral (M.D. and/or Ph.D.) research fellowships.

A fundamental goal of basic research in the Surgery Department is the application of basic biochemical, immunological, biophysical, and morphological methods to important biological questions related to the surgical disciplines. Special areas of methodology currently emphasized in the Department include: a wide range of fluorescence methods (steady-state, lifetime, polarization, FRAP, phosphorescence), basic immunology and cellular immunology, differential scanning calorimetry, and FPLC and HPLC protein, peptide, and phospholipid isolation and characterization. Extensive facilities also exist in the Department for tissue culture and basic molecular biological studies.

Applicants experienced in biophysical chemistry, membrane biophysics, spectroscopy, immunology, and molecular biology who are interested in applying these disciplines to model as well as biological systems are encouraged to apply. Clinically trained applicants interested in gaining the expertise to apply basic methodology to biomedical problems should also consider applying. Specific areas of research will depend on the Fellow's interests as well as those of the Department. Substantial independence in the execution and development of research problems will be afforded each fellow. Stipends are approx. $27,000. Call (216) 459-4456 for more detailed information.

MetroHealth Medical Center & Case Western Reserve University are both Equal Opportunity Employers which encourage applicants from qualified minority groups and women.

CNS Pharmacology
Postdoctoral Fellowship
Pfizer Pharmaceuticals

A postdoctoral fellowship in CNS pharmacology is now available in our New Drug Development group located in New York City. As a member of a multidisciplinary project team, you will have the opportunity to apply pharmacologic principles to the preclinical and clinical development of new drugs. The fellowship covers a 1-2 year period. Qualified individuals will have completed all requirements for the doctoral degree and have no more than one year of postdoctoral (non-industry) experience. For further information contact: Charlene Mirett, Associate Personnel Manager, Pfizer Pharmaceuticals, 235 East 42nd Street, New York, NY 10017. An equal opportunity employer.
Smith Kline & French, a leader in Pharmaceutical Research, has exciting opportunities for Scientists to join its expanding Protein Biochemistry Department. The selected individuals will design, conduct and interpret experiments involving the purification and characterization of vaccine, diagnostic and therapeutic protein candidates as part of our broad programs in the new research area of biopharmaceuticals.

The successful candidate(s) will have:
- BS/MS in Biochemistry or Chemistry with 2+ years laboratory experience in protein purification and characterization.
- Experience in column chromatography including HPLC, FPLC, etc.
- Experience in state-of-the-art techniques in protein analysis including SDS-PAGE, Western blotting and ELISA.
- Excellent oral and written communication skills.
- High motivation with the ability to work independently and as a team member.

Our beautiful, new research facility is located in suburban Philadelphia, near Valley Forge. Smith Kline & French provides a stimulating and challenging environment with opportunity for professional growth. We offer an attractive compensation and benefits package. For confidential consideration, please forward your resume to: N. Hasson, 10105, Smith Kline & French Laboratories Research & Development, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

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BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc. is engaged in the discovery, development, manufacture and marketing of novel therapeutic agents. The following position is available in the department of Drug Metabolism and Pharmacokinetics at our Research and Development Center, located in DANBURY, CT.

This position is responsible for performing the following activities:
- Developing new methods for quantitation of compounds in plasma and tissue.
- Preparing qualitative comparisons of metabolite profiles in various species.
- Isolating metabolites for identification.
- Developing isolation methods for metabolites labeled with trace radioactivity.
- Developing clean-up procedures and methods for quantitation of drugs and metabolites.
- Serving as representative for the department on project and development teams.

Requirements include a Bachelor's or Master's Degree in Analytical Chemistry, Biochemistry or similar discipline with a number of years related experience. Ability to analyze data, troubleshoot instrumentation and a familiarity with computers. Experience with a variety of chromatographic systems (TLC, HPLC, LC, GC) and isolation, identification and quantitation of trace compounds in complex biological matrices.

BOEHRINGER INGELHEIM offers a competitive salary and benefits package including relocation assistance, modern facilities and the opportunity to have your contributions recognized. If interested, please send your curriculum vitae to Dept. JU-15-3-948, BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., 50 East Ridge, P.O. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer m/f/h/v.

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NEUROSCIENCTISTS
Faculty Positions Open

Tenure-track Appointment. Associate or Assistant Professor. Rank and salary commensurate with career development. Research, service, and teaching. Participate in graduate training program. Minimum requirements: Ph.D.; 2 years of postdoctoral experience in neuroscience research; and funded and/or fundable research program.

Fixed-term Appointment. Research Assistant Professor or Research Associate. Rank and salary commensurate with career development. Position funding and continuation dependent upon extramural grant funds. Minimum requirements: Ph.D. with research in neuroscience.

Send letter of application, curriculum vitae, and names of 3 references to: Dr. Carl R. Morgan, Department of Anatomy and Cell Biology, East Carolina University, School of Medicine, Greenville, NC 27834-4354. East Carolina is a constituent institution of the University of North Carolina, an Affirmative Action/Equal Employment Opportunity Employer. Federal law requires proper documentation of identity and employability at the time of employment. It is requested that this documentation be included with curriculum vitae. Applications should be received by 16 June 1989.
POSTDOCTORAL POSITION available immediately to study the structure-function relationships of the glycosyl phosphate in the glycolipids of certain cells. Applicants with experience in recombinant DNA methodology, particularly in the construction and screening of recombinant DNA libraries are encouraged to apply. The starting salary range is $20,000 to $25,000, dependent upon experience. Please send curriculum vitae and names of references to: Dr. John G. Hildebrand, Director, A.R.L. Division of Neurology, University of Texas Medical Branch, Galveston, TX 77550.

POSTDOCTORAL RESEARCH position available to work on the molecular and cellular mechanisms of phagocyte oxidase system. A Ph.D. degree is required. The starting salary is $20,000 to $25,000, dependent upon experience. Please send curriculum vitae and references to: Dr. Howard E. Dodson, Department of Medicine, University of Texas Southwestern Medical Center at Dallas, Dallas, TX 75235.

POSTDOCTORAL RESEARCH ASSOCIATE is available immediately to study the structure-function relationships of the glycosyl phosphate in the glycolipids of certain cells. Applicants with experience in recombinant DNA methodology, particularly in the construction and screening of recombinant DNA libraries are encouraged to apply. The starting salary range is $20,000 to $25,000, dependent upon experience. Please send curriculum vitae and names of references to: Dr. John G. Hildebrand, Director, A.R.L. Division of Neurology, University of Texas Medical Branch, Galveston, TX 77550.

POSTDOCTORAL positions available immediately to study the structure-function relationships of the glycosyl phosphate in the glycolipids of certain cells. Applicants with experience in recombinant DNA methodology, particularly in the construction and screening of recombinant DNA libraries are encouraged to apply. The starting salary range is $20,000 to $25,000, dependent upon experience. Please send curriculum vitae and names of references to: Dr. John G. Hildebrand, Director, A.R.L. Division of Neurology, University of Texas Medical Branch, Galveston, TX 77550.
MAMMALIAN TOXICOLOGIST

FMC Corporation, a Fortune 150 international machinery and chemical corporation has an opening for a Mammalian Toxicologist at our Chemical Research and Development Center located in Princeton, N.J. Responsibilities will include evaluating and interpreting data from mammalian toxicology programs and preparing risk assessments; assisting in the compilation and dissemination of technical information; acting as study director/study monitor for Mammalian Toxicology programs; assisting registration specialists with toxicology studies necessary for registration of industrial and agricultural chemicals; and preparing MSDS's and product literature.

Position requires an MS/PhD degree in Toxicology or related field, and/or up to 2 years industrial experience. FMC offers excellent salary and benefits package. Please send resume with salary requirements to: FMC CORPORATION, Dept. 89-27, PO. Box 8, Princeton, NJ 08543. ATTENTION: Personnel Manager. Equal Opportunity Employer, M/F.

Southwest Research Institute has an immediate opening for a senior professional to head its **Department of Biosciences and Bioengineering**.

The Department is currently engaged in contract research and development work for both industrial and government clients in the general areas of biomedical instrumentation, field and clinical evaluations, human factors and performance assessment, toxicology and applied pharmacology. These activities are supported by well-established institute divisions in such fields as chemistry and chemical engineering, engineering and materials sciences, automation and data systems, and others.

Applicants should possess advanced degrees in bioengineering and/or biosciences related to the above mentioned areas and have a strong background in medical and physiological effects. Applicants should also possess superior management skills and leadership ability as well as a proven track record in contract research and development. Knowledge of and experience with regulatory agencies would be considered a positive factor.

Southwest Research Institute is a nonprofit research and development organization conducting contract research and development at a current annual volume in excess of $180M, with a current regular staff of over 2,300. An excellent benefits program is available for all regular staff and our salary structure is highly competitive.

Resumes may be forwarded in complete confidence to: **Mr. C.J. Luna, Sr. Personnel Specialist, Southwest Research Institute, Personnel Dept. #373, P.O Drawer 28510, 6220 Culebra Road, San Antonio, Texas 78228 or call collect (512) 522-3378.** Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

Molecular Virologist

The Department of Medical Microbiology and Infectious Diseases, University of Alberta invites applications for a faculty position in virology. Applicants should have a PhD degree with at least three years of postdoctoral research experience. The successful candidate is expected to develop a strong extramurally funded research program in the area of molecular virology. Priority will be given to individuals with expertise in the application of molecular approaches to the understanding of the pathogenesis of viral diseases. Up to 75% of time will be devoted to research, with the remaining time available for participation in undergraduate and graduate teaching, including the supervision of graduate students. Salary and rank will be commensurate with training and experience. Annual salary range for 1989-89: Asst. Prof. $25,144 to $47,288; Assoc. Prof. $41,390 to $59,534; Prof. $52,730. The successful candidate will be eligible to apply for salary and establishment funding support by competitive application at the Alberta Heritage Foundation for Medical Research.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

The closing date for applications is June 30, 1989. Please send applications consisting of detailed curriculum vitae, statement of research program, reprints of the applicant's five most significant publications and the names of three referees to: Dr. David L. J. Tyrrell, Chairman, Department of Medical Microbiology and Infectious Diseases, 1-41 Medical Sciences Building, the University of Alberta, Edmonton, Alberta, T6G 2H7, Canada.

The University of Alberta is committed to the principle of equity in employment.

HUGH KNOWLES CHAIRS

AUDIOLOGY AND HEARING SCIENCE

NORTHERN UNIVERSITY

Northwestern University announces the establishment of two endowed chairs, the Hugh Knowles Chair in Audiology and the Hugh Knowles Chair in Hearing Science. Each Chair, funded by a generous gift from Knowles Electronics, Inc., will be filled by faculty of distinguished scholarly achievement or unusual promise and developing international reputation. Applicants for the Audiology Chair should be Ph.D. scholars with an interest in auditory system function, having quantitative background (e.g., bioengineering, computer science or psychoacoustics). Applicants for the Hearing Science Chair should be Ph.D. or M.D. scholars with accomplishments in basic or clinical neuroscience and an interest in either higher nervous system function or neurobiology of the peripheral auditory system. These positions will be filled at either the full or associate professor level. Generous start-up funds, laboratory space and a competitive salary are provided.

Applications and nominations are invited. Review of applications will begin immediately, but these positions will remain available until filled. Please send curriculum vitae along with a letter of interest to:

Chair, Search Committee
Audiology and Hearing Impairment Program
Northwestern University
2299 Sheridan Road
Evanston, IL 60208

Northwestern University is an EO/AA Employer. Hiring is contingent upon eligibility to work in the United States.

MANAGER, COLLABORATIVE RESEARCH

We are a growing international division of Baxter Healthcare Corporation. Today as we strive to meet new long-term objectives, an outstanding opportunity is offered at one of our Deerfield locations.

We have need of a Scientist to manage outside, contracted research programs. These programs cover a broad range of nutrition research, from basic science to clinical studies and are international in scope. The successful candidate will have a Ph.D. in biochemistry, nutrition, or physiology and from 1-3 years of postdoctoral experience. Experience in metabolism research and some exposure to clinical research are desirable.

A highly competitive salary and comprehensive benefits program is included in this total package. Immediate attention will be given to those individuals who submit their resumes with salary history and expectations. Please send resume to: Baxter Healthcare Corporation, c/o Bentley, Barnes & Lynn, Inc., 420 N. Wabash Ave., Dept. S-0232, Chicago, IL 60611. (All resumes will be forwarded unopened and immediately to Baxter.) Equal Opportunity Employer.

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RESEARCH SCHOOL OF PACIFIC STUDIES

Task: to initiate work on policy problems associated with the use, development and conservation of the natural resources, especially savanna land, of Northern Australia. Qualifications: A PhD in economics, agricultural economics, or natural resource management and experience in the analysis of resource related problems is essential. Postgraduate research experience in the relationships between social and ecological sciences would be an advantage. Post: Full time research, available January 1990, location, Darwin, Australia. Secondments from other institutions considered. Details: A short statement of proposed research is to be submitted with the application. Further details from the Executive Director, NARI, PO Box 4132, Casuarina, NT 0811, Phone (089) 275 688, FAX (089) 450 752. Closing date: 30 June 1989. Ref: PA 30.3.3.

Senior Research Fellow: $42,582–$50,619 p.a.; Research Fellow: $30,737–$40,100 p.a.; Post-doctoral Fellow Grade 1 (fixed point): $26,617–$30,360 p.a. APPOINTMENT: Senior Research Fellow/Research Fellow up to three years, possibility of extension to five years; Postdoctoral Fellow normally two years, possibility of extension to three years. APPLICATIONS should be submitted in duplicate to the Registrar, The Australian National University, GPO Box 4, Canberra ACT 2601, Australia, quoting reference number and including curriculum vitae, list of publications and names of at least three referees. The University reserves the right not to make an appointment or to appoint by invitation at any time. Further information is available from the Registrar.

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Dept. #393

Qualified candidates for this position must have a BS or MS in Chemistry or a related field and some experience in polymer chemistry and drug delivery. Experience in spray coatings and micro-encapsulation for drug delivery systems or devices is highly desirable.

RESEARCH ASSOCIATE — DRUG DELIVERY
Dept. #394

Candidates for this position must have a BS or MS in Chemistry or a related discipline and experience with lipid vesicles and emulsion micro-emulsion technology. Experience with one or more of the following techniques — FTIR, Gel Electrophoresis, HPLC, light scattering, NMR and DSC — is desirable.

Amgen offers the unique opportunity to contribute to challenging and exciting research programs on the leading edge of pharmaceutical science. Amgen also offers an excellent compensation and benefits package as well as an attractive location northwest of Los Angeles.

Qualified applicants should send a resume or c.v. in confidence to:

AMGEN, INC.
Recruitment, (specify Dept. #)
1900 Oak Terrace Lane
Thousand Oaks
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SENIOR SCIENTIST
Cardiovascular Toxicology Research

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- To direct laboratory efforts investigating the cardiac and hemodynamic effects of new pharmaceuticals and agrichemicals in the context of toxicology research and safety assessment, utilizing a variety of conscious animal models and state-of-the-art instrumentation.
- Must have Ph.D. in pharmacology, physiology, or a related discipline. (Postdoctoral training is preferable, but not essential.)
- Laboratory experience in the design, execution, and analysis of hemodynamic parameters in whole animal preparations is required.
- Experience with the programming or use of laboratory computers is necessary.

In addition, this scientist must have the leadership capabilities needed — technical, communication, interpersonal, and organizational skills — to build a research program.

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For prompt consideration, please forward your curriculum vitae to:

John W. Crooks, Manager
Ph.D. Recruitment (CTR)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

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POSITIONS OPEN

SENIOR FACULTY POSITION
MOLECULAR BIOLOGIST

The Department of Molecular Biology and Biochemistry at The University of Iowa invites applications for a tenure-track position at the associate or full professor level. The position was made possible in part by a grant to the University from the Howard Hughes Medical Institute. The Molecular Biology and Biochemistry Department has a strong Ph.D. program, complemented by similar programs in biology and chemistry. Areas of strength in the life sciences include molecular, cell and development biolology, genetics, neurosciences, molecular biophysics, and biochemistry.

We seek a person of demonstrated scientific accomplishment who uses molecular genetic approaches to study fundamental problems in biology. Further information may be obtained from: Dr. Lewis Lukens at 203-347-9411, extension 2309. Interested applicants should send curriculum vita, summary of research plans, and names and addresses of five referees to: Search Committee, Department of Molecular Biology and Biochemistry, The University of Iowa, Iowa City, IA 52242-1299.

RESEARCH AWARDS

The International Life Sciences Institute Research Foundation (ILSI Research Foundation) announces that two awards for basic research projects in toxicology and nutrition, each of up to $100,000 over 3 years, will be made in 1990. The purpose of the awards is to encourage innovative, young investigators in basic biomedical sciences to apply modern knowledge and techniques to basic problems related to comparative toxicology or specific nutritional effects on growth and development. The closing date for applications is 1 September 1989. For further information, write: ILSI Research Foundation, 1126 16th Street, NW, Suite 100, Washington, D.C. 20036.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

The Hypertension Research Division at Henry Ford Hospital is a multi-disciplinary laboratory in the Heart and Vascular Institute, involved in the study of vasoregulatory substances in the regulation of blood pressure. An opportunity is available for a Ph.D. or M.D. within a productive environment which integrates cardiovascular and renal physiology, biochemistry, pharmacology, molecular biology and toxicology. Basic research and exposure to different techniques are available, depending upon prior research experience or the motivation of the applicant. Salary and benefits are negotiable depending upon previous experience. Applicants should send their curriculum vitae and two references (or "letters of reference") to:

Dr. Oscar A. Carretero
Division Head
Hypertension Research Division
7123 E R Building
Detroit, MI 48202

ACADEMIC FELLOWSHIPS IN NEONATAL-PERINATAL MEDICINE/CELL AND MOLECULAR BIOLOGY

Advanced training in cell and molecular biology and related disciplines is offered in the Neonatal-Perinatal Medicine/Clinical and Molecular Biology Program at Stanford University Medical Center. Contact: David Warburton, M.D., Academic Training Program in Neonatal-Perinatal Medicine/Cell and Molecular Biology Program, Department of Pediatrics, 1000 East Willow Street, 5th Floor, Stanford, CA 94305. A fellowship position is available for a Ph.D. or M.D. in molecular biology and cell biology.

POSTDOCTORAL FELLOWSHIPS IN MOLECULAR BIOLOGY AT HARVARD MEDICAL SCHOOL

The Department of Genetics, Harvard Medical School, invites applications for postdoctoral positions for two individuals holding Ph.D. or M.D. degrees for NSP-supported postdoctoral training in molecular biology of ion transport proteins. Strong backgrounds in biochemistry or related fields are required. Only two applicants per fellowship deadline are eligible. Send curriculum vitae and three references to: Dr. Barry M. Brenner, Director, Renal Division, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. HMS/BWH are Equal Opportunity Employers.

CONFERENCES

Conference on:
THE BIOLOGICAL ACTIONS OF EXTRACELLULAR ATP
sponsored by The New York Academy of Sciences
Adam's Mark Hotel, Philadelphia, PA
27 to 29 November 1989

For further information: Conference Department, The New York Academy of Sciences, 72 W. 43rd Street, New York, NY 10021. Telephone 212-838-3230.

FIRST INTERNATIONAL CONFERENCE ON WASTE MINIMIZATION AND CLEAN TECHNOLOGY: MOVING TOWARD THE 21ST CENTURY

To register, contact: Ms. M. Mowery, APWA, P.O. Box 94310, Chicago, IL 60678-4310. Telephone: 312-667-2200; FAX: 312-667-2304.

IMAGING IN MEDICINE AND BIOLOGY: CURRENT ISSUES AND PROSPECTS
6 to 8 September 1989
Drexel University
Philadelphia, Pennsylvania
Session topics and lead speakers:
Imaging of the Nervous System
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Cell Imaging
Lee Peacock, Ph.D., University of Pennsylvania
Imaging of Organ Systems
Alexander Margulis, M.D., University of California, San Francisco
Structural Imaging
Thomas Bucdinger, M.D., Ph.D., University of California, Berkeley
Human Image Understanding
Ellen Hildreth, Ph.D., Massachusetts Institute of Technology
Contact: Dr. Dov Jaron, Biomedical Engineering and Science Institute, Drexel University, 32nd and Chestnut Streets, Philadelphia, PA 19104. Telephone: 215-895-2218; Fax: 215-895-4985.

TRAINING PROGRAMS

Position available for postdoctoral or graduate RESEARCH TRAINING in the molecular biology of immunoparasites. For further information, see Mowery, contact: Certified DNA, 500 West Street, Suite 811, San Francisco, CA 94117. Telephone: 415-421-8554.

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