Positions Open

Several full-time faculty positions are available for ANATOMIC AND CLINICAL PATHOLOGISTS in the Department of Pathology at the Wayne State University School of Medicine. Faculty rank to be commensurate with experience and qualifications. Responsibilities will include teaching, research, and hospital service. Candidates must be Board-certified or Board-eligible, licensable in the state of Michigan, and exhibit scholarship potential. Send curriculum vitae and three references to: Chair, Department of Pathology, Wayne State University, School of Medicine, 540 East Canfield, Detroit, MI 48201. An Equal Opportunity/Affirmative Action Employer, M/F.

Assistant/Associate Professor, 3-year, renewable, fixed-term appointment in6fisheries with the Coastal Oregon Productivity Enhancement (COPE) research program, located in Newport, Oregon. Available 1 November 1990. Responsibilities are to develop and conduct fish habitat/forest management research and continuing education programs as coordinator of an interdisciplinary team. Ph.D. in fisheries or a closely related field; experience in research and management of forested and managed forest relationships desirable. Application closing date: 14 September 1990. A more detailed position description is available. Send inquiries or letter of application, résumé, three letters of recommendation, and transcripts to: COPE Search Committee, Forest Engineering, Oregon State University (OSU), Corvallis, OR 97331. An Equal Opportunity/Equal Access Employer; complies with Section 504, Rehabilitation Act of 1973. OSU is responsive to dual-career couples.

Assistant Curator Flora of China

Missouri Botanical Garden invites applications for a new flora of China position. The position incumbent is eligible for all appropriate garden benefits and is stationed at the Missouri Botanical Garden in St. Louis, initially for a 2-year period. The position incumbent is responsible for conducting research and publishing results related to the flora of China. Candidates must be citizens of the United States and have a Ph.D. or equivalent in systematic botany and at least 3 years of research experience in a Chinese flora. Prior familiarity with Chinese names, synonyms, distribution, uses, and conservation is desirable. The successful candidate will be expected to: (i) develop and publish a flora of China; (ii) provide assistance to the Flora of China Committee; (iii) conduct research on the biology and ecology of Chinese plants; and (iv) develop and maintain a comprehensive database of Chinese plants. Salary is competitive and benefits are generous. Applications should include a letter of application, a curriculum vitae, and three letters of recommendation. Applications are due by 1 December 1990. For further information contact: Chairman, Department of Botany, Missouri Botanical Garden, 4345 Shaw Boulevard, St. Louis, MO 63110. An Equal Opportunity/Equal Access Employer.

Urban Horticulturist

The Department of Biological Sciences, University of Nevada, Las Vegas (UNLV), and the Department of Plant Science, University of Nevada, Reno (UNR), are seeking to fill a joint 12-month tenure-track position at the Assistant/Associate Professor rank in the area of urban horticulture. This position will be located on the UNLV campus, and will be 75% research/25% teaching. The successful candidate will be expected to develop and fund a research program, and to contribute to the education of undergraduate and graduate students. The successful candidate will have a Ph.D. in horticulture or a closely related field. Research responsibilities include (i) developing and implementing a research program in urban horticulture, (ii) teaching courses in horticulture, (iii) supervising and mentoring graduate and undergraduate students, and (iv) participating in departmental, college, and university committees. A strong background in sustainable horticultural systems is required. Salary will be competitive and the candidate will be expected to develop a collaborative research program with colleagues in the College of Agriculture and Life Sciences. Applications must include a letter of application, curriculum vitae, and three letters of recommendation. The University of Nevada, Las Vegas, and the University of Nevada, Reno, are Equal Opportunity/Affirmative Action Employers. UNLV and UNR employ only U.S. citizens and aliens authorized to work in the United States.

Assistant Professor Research Track

Nucleic Acid Chemist. To participate in active research group studying free radical-induced DNA damage and repair. Ph.D. in chemistry and postdoctoral experience are required. Prior experience with oligonucleotide synthesis is highly desirable. Applicant will be expected to participate fully in departmental activities and develop an independent research program. Postdoctoral associates are also available. Please send curriculum vitae and three letters of recommendation to: Dr. Susan S. Wallace, Department of Microbiology and Molecular Biology, University of Vermont, 1299 College St., Burlington, VT 05405. Women and minorities are encouraged to apply. The University of Vermont is an Equal Opportunity/Affirmative Action Employer.

Cardiovascular Physiology

The Department of Biology at San Diego State University (SDSU) invites applications for a tenure-track position to be filled in the fall of 1990 at the Assistant, Associate, or Full Professor level. We seek an individual to complement present faculty research and teaching interests in biochemical and molecular studies of cardiovascular function. Desirable areas of research expertise include (i) cardiac specific gene expression and function, (ii) excitation-contraction coupling mechanisms in cardiac smooth muscle and endothelial cell function, (iii) calcium/calcimodulin, (iv) gene expression and function, (v) lipid protein and/or cholesterol metabolism. The successful applicant is expected to develop, or continue, an externally funded research program and to participate in a flexible program of research, teaching, and service to undergraduate and graduate students. Postdoctoral experience is required. The criteria for appointment is: Ph.D. in cellular and molecular physiology. Applicants are encouraged to submit a letter of application, curriculum vitae, a statement of research interest, and the names, addresses, and telephone numbers of at least three references to: Chair, Cardiovascular Search Committee, Biology Department, San Diego State University, San Diego, CA 92122-0587. Applications from women, ethnic minorities, and disabled individuals are especially encouraged. SDSU is an Affirmative Action/Equal Opportunity Employer.

Genetic Transformation of Plants

Assistant Professor. The Department of Plant Pathology and Physiology, Clemson University, announces a tenure-track, 12-month, assistant professor position to begin in the fall of 1990. Research emphasis is to be on genetic transformation of plants. A Ph.D. in plant pathology/physiology or associated biological sciences is required. The postdoctoral experience will be preferred. Evidence of publications and promise of securing extramural funding is expected. This person will be expected to participate in the graduate program with a common interest in use of molecular genetics to develop pest and pesticide resistance and improved production characteristics of plants. Emphasis will be on plant cell transformation (gene transfer, isolation, transfer, and regeneration of transformants). Teaching will include a graduate course stressing physiological/molecular techniques in plant pathology/biology. Standard benefits. Salary competitive. A letter of application, résumé, transcripts, three letters of evaluation, and a brief statement of research interests are due by: Dr. O. J. Dickerson, Department of Plant Pathology and Physiology, Clemson University, Clemson, SC 29634-0515. Telephone: 864-656-2450. Applications will be received until the position is filled. Clemson University is an Equal Opportunity/Affirmative Action Employer.

Biochemist/Pharmacologist

Large neuroscience research laboratory seeks biochemist with background in pharmacology and characterizaiton of novel neurotransmitters/receptors/proteins. To apply, send curriculum vitae and bibliography to: D. J. Reis/K. Koenig, Division of Neurobiology, Cornell University Medical College, 411 East 69th Street, KBC, New York, NY 10021. An Equal Opportunity/Affirmative Action Employer.

Assistant Professor Research Track

General Transformation of Plants

Assistant Professor. The Department of Plant Pathology and Physiology, Clemson University, announces a tenure-track, 12-month, assistant professor position to be filled in the fall of 1990. Research emphasis is to be on genetic transformation of plants. A Ph.D. in plant pathology/physiology or associated biological sciences is required. The postdoctoral experience will be preferred. Evidence of publications and promise of securing extramural funding is expected. This person will be expected to participate in the graduate program with a common interest in use of molecular genetics to develop pest and pesticide resistance and improved production characteristics of plants. Emphasis will be on plant cell transformation (gene transfer, isolation, transfer, and regeneration of transformants). Teaching will include a graduate course stressing physiological/molecular techniques in plant pathology/biology. Standard benefits. Salary competitive. A letter of application, résumé, transcripts, three letters of evaluation, and a brief statement of research interests are due by: Dr. O. J. Dickerson, Department of Plant Pathology and Physiology, Clemson University, Clemson, SC 29634-0515. Telephone: 864-656-2450. Applications will be received until the position is filled. Clemson University is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

Openings exist in the Dermatology Department for a CLINICAL PROFESSOR, must be Board-certified in Dermatology and be interested in teaching, hematology/oncology preferred. Experience in clinical teaching and research. The incumbent will function as the Dermatopathology Director/Chief of Dermatol-ogy. Salary: $60,000 to $110,000. Send applications to: Bruce U. Wintrobe, M.D., 515 Spruce Street, San Francisco, CA 94118. Filing deadline: 10 August 1990. The University of California is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR PLANT SYSTEMATICS

Applications are invited for a tenure-track position beginning in the fall semester 1991. Applicants must have a Ph.D. in systematics, preferably followed by postdoctoral experience in macromolecular techniques. The successful candidate will be expected to teach courses in undergraduate and graduate plant systematics, and will be required to develop an innovative and productive research program that utilizes both classical and state-of-the-art molecular biology tech-niques. Applicants should submit a letter of research goals and teaching interests, a detailed résumé, and a list of five individuals with addresses who might transmit letters of support. Applications are to be addressed to: Chairman, Selection Commit-tee, Department of Botany, The University of Texas, Austin, TX 78713 so as to arrive before the closing date, 1 October 1990.

WILDLIFE ECOLOGY

The School of Forestry, Wildlife, and Fisheries seeks applicants for a full-time, ASSISTANT PROFES-SOR tenure-track position in wildlife ecology. Respon-sibilities include the development of a strong research program that includes existing habitat-oriented pro-grams and participation in undergraduate and graduate teaching and student advising. Qualifications include a Ph.D. (or in wildlife or related field). Salary is competitive and excellent benefits are available. Applicants should submit a letter of application, cur-rericulum vita, official university transcripts, and three letters of reference to: Dr. Stanley B. Carpenter, Di-rector, School of Forestry, Wildlife, and Fisheries, Louisiana State University, Baton Rouge, LA 70803 (telephone: 504-388-4131) before 1 October 1990.

Louisiana State University and the Louisiana Agricultural Experiment Station are Equal Opportunity/Affirmative Action Employers.

MOLECULAR PARASITOLOGIST ASSISTANT/ASSOCIATE PROFESSOR

NEW POSITION

The Department of Zoology at the University of Georgia invites applications for a tenure-track position. Investigators working at the molecular/cellular level in any area of parasitology are encouraged to apply. Special consideration will be given to those with an expertise in areas such as recombinant DNA techniques and mole-cular separations. Departmental duties will include con-trIBUTING to current teaching in parasitology to under-graduate students and developing a course in molecular parasitology at the graduate level. The successful candi-date will have a prominent role in the Department of Zoology's current NIH training program in the mole-cular cell biology of parasites and vectors, and will be expected to develop a strong research program complemen-tary to current departmental research which includes immunology, molecular biology, cell biology, biochem-stry, and ultrastructure of parasites. Current faculty are engaged in collaborative research in Brazil, Peru, and Chile.

Send curriculum vitae, a statement of career objectives and current and planned research, and the names, ad-dresses, and telephone numbers of three or more refer-ences to:

Dr. M. Agostin
Chair, Search Committee
Department of Zoology
University of Georgia
Athens, GA 30602
Telephone: 404-542-3439

Applications received by 15 September 1990 are as-sured of consideration.

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

POSITIONS OPEN

Chairman, DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Jefferson Medical College of Thomas Jefferson University invites applications and nominations for the po-sition of Chairman of the Department of Microbiology and Immunology. The successful candidate must have a commitment to education, a distinguished record of achievement in the field of immunology, and a demonstrated ability for scientific leadership and a record of interdisciplinary cooperation. Under the direction of the new chairman, the department is expected to become a center of research excellence, and a key partic-i-pant in the cooperative, interdepartmental research pro-grams of the university. New faculty positions will be established, and the department will relocate in September 1991 into significantly expanded facilities in a new research building now under construction. Applications and nominations with curriculum vitae and other sup-pporting information should be forwarded to: Microbi-ology and Immunology Search Committee, Office of the Dean, Jefferson Medical College, Thomas Jeffer-son University, 1025 Walnut Street, Philadelphia, PA 19107-5083. An Affirmative Action/Equal Opportu-nity Employer.

ChairPERSON DEPARTMENT OF HEMATOLOGY/ONCOLOGY THE UNIVERSITY OF VIRGINIA HEALTH SCIENCES CENTER

Applications are invited for the position of professor and chairperson of the Department of Pharmacology at the University of Virginia's Cancer Center. Can-didate must have a distinguished record of scholarship and professional achievement, and proven leadership and administrative ability. Curriculum vitae and names and addresses of three or more references should be sub-mitted by 15 September 1990 to the chairman of the search-committee:

Dr. G. Frederick Wooten
Department of Neurology, Box 394
University of Virginia Health Sciences Center
Charlottesville, VA 22908

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

ASSISTANT DEAN, ENGINEERING/SCIENCE/ MATH. Overdue County College seeks a candidate for this 12-month position. Master's degree required, earned doc-torate desired; 5 years of teaching experience in appropri-ate subject area at postsecondary level and demonstrat-ed leadership in educational administration, preferably at de-partmental level, required. Competitive salary, outstanding benefits. Position will remain open until filled. Send application/resume to: Ocean County College, C/O P.O. Box 199, Toms River, NJ 08754. A position is available for an administrative assistant (P.0. Box 40709)

ZOLOGY DEPARTMENT HEAD

North Carolina State University invites applications for the position of Head of the Department of Zoology. Professional qualifications include an earned doctorate, background and experience in an area of zoology, demon-strated leadership ability, and a record of teaching, advising, and published scholarly contributions commensurate with the rank of full professor. Completed appli-cations will include: a letter of application that describes the applicant's interests and qualifications for the posi-tion; names, addresses, and telephone numbers and fax numbers of four persons who may be contacted as professional references; and curriculum vitae. Only applications that are complete and received by 4 September 1990 will be consid-ered. Materials should be sent to: L. W. Parks, Chair-man, Search Committee for Zoology Head, Department of Microbiology, Box 7615, Raleigh, NC 27695-7615.

North Carolina State University is an Equal Opportunity/Affirmative Action Institution. M/F/H/IV/V. Proper documentation of identity and employment eligibility will be required before the hiring process can be finalized.

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RESEARCH ASSOCIATE—VACCINE DEVELOPMENT

The International Laboratory for Research on Animal Diseases (ILRAD), is an internationally funded, major institution with the mandate of developing improved methods to control two important diseases of livestock, trypanosomiasis and tsetsefly. The multidisciplinary research program includes biochemistry, molecular biology, immunology, cell biology, pathol-ogy, parasitology, electron microscopy and entomology with appropriate supporting units. Applications are invited for the positions of:

RESEARCH ASSOCIATE IMMUNOCHEMISTRY/MOLECULAR BIOLOGY

REF: (RA/90/3)

A position is available for a Research Associate in immunochem-istry/molecular biology available in a research group engaged in elucidating the bovine immune response to infection with Theileria parva. The activi-ties of the group are currently focused on the identifi-cation of parasite molecules recognized by antibodies and cytotoxic T lymphocytes from immune cattle. Research Associate would participate in projects aimed at the isolation and characterization of genes encoding parasite antigens, and direct expression cloning in eukaryotic cells of theilerial and bovine lymphocyte surface antigens. Applicants should have a science degree or an advanced diploma in laboratory technology. Extensive experience in techniques of plasmid construction and screening of DNA libraries is essential, while further experience in transfection techniques would be desirable.

These are international staff positions and salaries will be paid in US dollars. Initial salaries will be deter-mined by qualifications and experience. Scientific staff are expected to contribute to the training program. Moving, housing, commutation and education allow-ances are paid and there are medical and retirement benefits. Applicants should include current curricu-lum vitae and names and addresses of three referees. Applications, citing the position reference number, should be sent by August 15th to:

THE CHIEF PERSONNEL OFFICER

I.L.R.A.D.

P.O. Box 40709

NAIROBI.

Kenya.

27 JULY 1990
**DEOXYOLIGONUCLEOTIDE ANALOG DEVELOPMENT AND EVALUATION**

Amgen has emerged as an innovative leader in the research and development of human therapeutics through applied biotechnology. As a result of our continued growth, we have opportunities available in Deoxyoligonucleotide Analog Development and Evaluation in our DNA Therapeutics Group, located in Boulder, Colorado, for the following positions:

**RESEARCH SCIENTIST AND POSTDOCTORAL RESEARCH POSITIONS**

The responsibilities of these positions include developing and executing new strategies for the characterization of the biological effects of oligodeoxynucleotide analogs in model systems. Qualified candidates must have a Ph.D. in Biochemistry, Cell Biology, Virology or a related field. Supervisory experience is advantageous but not required.

Amgen offers an excellent compensation and benefits package and the unique opportunity to contribute to significant research programs on the forefront of biotechnology. If you feel that you have the necessary skills, qualifications and motivation and would like to be part of a company that places a high priority on its human resources, send a resume, in confidence, to:

**AMGEN BOULDER, INC.**
Department 2351
2045 32nd Street
Boulder, CO 80301

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**ANIMAL DEVELOPMENTAL BIOLOGY**

**CORNELL UNIVERSITY**
**COLLEGE OF VETERINARY MEDICINE**

Applications are sought for two faculty positions (Assistant/Associate Professor) to be part of a campus-wide initiative in Animal Molecular Biology. Individuals in the following areas are invited to apply: Embryo Biology (transgenic and oncogenes, genome mapping); Molecular Genetics (gene regulation in early development, growth factors, and oncogenes); Molecular Reproduction (molecular endocrinology, genetic imprinting); and Animal Developmental Biology Program (microbiology, animal science, genetics and biotechnology). The successful candidates will have faculty appointments in appropriate departments of the Veterinary College and will participate in the graduate and professional teaching programs. Veterinary qualifications and/or experience with domestic animals are desirable, but not required. Send a letter of interest with the names of three references to: Dr. Douglas Antczak, James A. Baker Institute for Animal Health, New York State College of Veterinary Medicine, Cornell University, Ithaca, New York 14853, USA. Closing date: 15 September 1990.

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**Biochemist**

Pfizer Inc is an international leader in the research and development of health care products. The Department of Metabolic Diseases and General Pharmacology in the Central Research Division is committed to innovative research leading to the discovery of novel therapeutics for the treatment of cardiovascular diseases. Our approach to drug discovery encourages individual creativity as an important element in guiding a team effort toward a therapeutic target. This philosophy results in an environment that is challenging to the individual while enhancing group productivity. Scientific growth and development are stimulated by frequent interactions with prominent scientists in academia and medicine as well as with members of the research community within Pfizer.

Currently there is a position for a research scientist with a Ph.D and 1-3 years of postdoctoral experience. We are particularly interested in people who are working in the renin-angiotensin system and one or more of the following areas: enzymology, receptor binding assays, tissue culture and histochemical techniques, peptide identification techniques (HPLC), or the pharmacokinetics of drug disposition. In addition, a knowledge of protein chemistry or computer modeling of enzyme-inhibitor interactions is desirable.

We offer a stimulating research environment and an excellent opportunity for professional recognition and advancement. In addition we provide a competitive salary/benefits package and an opportunity to live in an attractive Connecticut shore community. Qualified applicants should submit their resume and references in confidence to: Dr. Jerry K. Larson, Assistant Director, Employment Resources, Central Research Division, Pfizer Inc, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

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**Biologists/Chemists**

The Molecular Diagnostics Group of Baxter Healthcare Corporation is seeking experienced Scientists to participate in nucleic acid research aimed at developing new clinical diagnostic techniques. The following positions are available:

**Staff Scientist - Molecular Biology**
Ph.D. in Microbiology/Molecular Biology with 2-3 years post doctoral experience working with thermophilic microorganisms is required. Candidate should be familiar with growth properties of thermophiles and their phases. Experience in the isolation and characterization of genes from this group is desirable.

**Staff Scientist - Chemistry**
Ph.D. in Chemistry/Biochemistry with 1-2 years post doctoral experience in organic synthesis, analytical methods (preferably fluorescence and time-resolved spectroscopy) and familiarity with nucleic acid chemistry and enzymology is required.

**Research Associate**
BS/BA, MS with minimum 2 years experience in DNA cloning, PDR and purification, nucleic acid sequencing and hybridization required. Experience in working in isolation of cDNA clones desirable.

If you possess the above qualifications and desire a challenging and responsible position, please send resume outlining professional background in complete confidence to: Baxter Healthcare Corporation, Diagnostics Group, P.O. Box 11106, Santa Ana, California 92711. We are an equal opportunity employer m/f/h/v.
**RESEARCH VETERINARY PATHOLOGIST**

The Upjohn Company, a recognized leader in the research, production and marketing of pharmaceutical, chemical and agricultural products, has an opening for a Veterinary Pathologist in our Drug Development Toxicology Group.

As part of a multi-disciplinary team, this Research Scientist will support and enhance drug development in our human and animal health business; also plan, facilitate and coordinate the execution of studies to support human and target animal safety and human food safety on a worldwide basis. Duties include planning, conducting and facilitating studies to support safety and product registrations and maintaining an active drug safety laboratory for basic and applied research. The successful candidate will be a DVM, Ph.D. and ACVP certified with a minimum of two years of relevant experience in pathology and toxicology. Interest, knowledge and experience in toxicologic pathology is highly desired.

Upjohn offers a competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment at our modern laboratories in Kalamazoo, Michigan. In 1989, Upjohn committed over $400 million to research and development and is currently increasing its main research facility by 50%. Qualified and interested applicants are invited to forward their cv/resume to: THE UPJOHN COMPANY, CORPORATE RECRUITING, KALAMAZOO, MI 49001-0199. Refer to position number 5696-HA in your correspondence. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...

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**Ph.D. Organic Chemist**

This individual will add synthetic organic expertise to an existing biochemical research effort. The ability to work independently, a Ph.D. with 5+ years experience, and a broad knowledge of organic reactions in aqueous media are required. Familiarity with redox dye chemistry is a plus. Full/part/flex-time options will be considered for this position. RE: R39

**Biochemical Production Supervisor**

This individual will direct a biochemical production team involving formulations of chemicals, biochemicals, and enzymes, and the operation of complex, precise production equipment. A M.S. in biochemical engineering or equivalent, 3+ years industrial experience, and supervisory experience are required as is the capacity for day-to-day independent troubleshooting. RE: 31

Enzymatics develops and manufactures a new generation of instrument independent diagnostics utilizing proprietary technology. Come join the excitement. Please send resume, salary history and three references to:

*Enzymatics, Inc.*
355 Business Center Drive
Horsham, PA 19044

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**DIRECTOR OF DNA SEQUENCING OPERATIONS**

Lark, a leader in the Biotechnology Services industry, is seeking an aggressive Scientist to direct the operations of a large scale DNA sequencing laboratory. The successful candidate will have a keen interest in pushing the frontiers of the art and science of DNA sequencing.

Lark is affiliated with a major medical school and research center and provides molecular biology services to investigators worldwide. Qualifications include:

- Ph.D. with 3-4 years Post-Doctoral experience.
- Strong skills in molecular biology techniques.

Lark offers an outstanding compensation package including a competitive salary, performance bonus, stock options, liberal benefits and company paid medical insurance. The company will also pay all relocation expenses. Please call or write (fax):

Eric M. Eastman, Ph.D., Director of Operations
Lark Sequencing Technologies, Inc.
1709 Dryden, Ste. 604
Houston, TX 77030-2401
Tel: (713) 799-9193; Fax: (713) 799-9030
POSITIONS OPEN
ENVIRONMENTAL MICROBIOLOGY
The Department of Biology at the University of Mississippi invites applications for a tenure-track position in environmental microbiology. Duties: conduct basic and applied research in bioremediation, biodegradation, and biotransformation related to environmental phenomena; develop an extramurally funded collaborative research program; participate in graduate and undergraduate teaching including general microbiology, immunology, and graduate level courses in microbial physiology/genetics; direct masters and doctoral students; and participate in local and national professional service. Special opportunities exist for participation in the freshwater biology emphasis and at the biological field station. Qualifications: Earned doctorate in an appropriate field; postdoctoral experience preferred when available; a record of publications, preferably in the specialty area; evidence of ability to obtain extramural funding and of a collaborative research orientation. Academic rank is open, salary depends on qualifications. Position available in January 1991. Submit a letter of application, description of current research interests and future research plans, complete curriculum vitae, the names, addresses, and telephone numbers of at least three references to: James A. Kushlan, Chair, Department of Biology, The University of Mississippi, MS 38676. Review of applications is expected to continue until filled. The University of Mississippi is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO (UCSF) AND BERKELEY FACULTY POSITIONS IN PARASITE BIOLOGY
The Intercampus Program for Molecular Parasitology (IPMP) of the University of California at San Francisco and Berkeley is recruiting junior faculty members with research interests in fundamental aspects of host-pathogen interactions. The IPMP is an interdisciplinary group investigating the biology of protozoan, helminth, and bacterial parasites. The emphasis is on immunology, biochemistry, and molecular biology. Current faculty have appointments in the UCSF School of Medicine or School of Pharmacy and/or UC Berkeley School of Public Health.
Successful applicants are expected to develop independent research programs, with initial support from the John and Catherine MacArthur Foundation. While it is not necessary that applicants work solely on parasites, they are expected to demonstrate a willingness to develop a research focus in this area. Preference will be given to applicants at the junior level and having a solid background in either molecular biology, immunology (cellular or molecular), molecular pharmacology, or protein chemistry.
Applications should submit their curriculum vitae, a short summary of their research interests (no longer than one page), and arrange to have three letters of reference sent to: Dr. Nina Agabian, IPMP Recruitment, UCSF School of Pharmacy, Box 1204, San Francisco, CA 94143-1204.

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ANNUAL MEETING ANNOUNCEMENT
Society for the Study of Evolutionary Development
April 25-29, 1991
Swarthmore College
Witney Hall, Swarthmore, PA

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY
Postdoctoral position available immediately for a molecular biologist, biochemist, immunologist or immunologist to join an active multidisciplinary research team to study gene expression, actions of neuropeptides, peptide hormones and cardiac protection in the cardiovascular system. Experience in current techniques such as in situ hybridization, PCR, HPLC, RIA or spectrophotometry is preferred. The candidate should have the ability to write grant proposals and publish manuscripts. He or she should be able to conduct research projects independently, as well as collaborating with other investigators.
Please send resume and names of references to: Leon Halber, Chairman of the Board, Deborah Research Institute, 1 Trenton Road, Browns Mills, NJ 08015-1799.

POSITIONS OPEN
HEALTH PHYSICIST. Idaho State University (ISU), Pocatello, Idaho, has a current opening for a Health Physicist at the Idaho National Engineering Laboratory. Applicants should have a Ph.D. in physics or equivalent. In addition to a BS or equivalent, a master's degree in physics is required. A current AP-1 license is requested. The Health Physicist is responsible for the protection of personnel, the facilitation of research, and the supervision of Radiation Safety processes and procedures. Applicants should provide evidence of ability to develop, maintain, and support a radiation safety program. Idaho State University is an Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGIST. The Discipline of Physiology invites applications for a tenure-track position in Basic Physiology at the University of California, Davis. The basic responsibility of this position is to develop an extramurally funded and collaborative research program. The University of California, Davis is an Equal Opportunity/Affirmative Action Employer.

MANAGER/RESEARCH GRANTS PROGRAMS
The American Health Assistance Foundation (AHAF) is seeking a Ph.D. or M.D. to administer all research grant activities for its three research programs for Alzheimer's disease, coronary heart disease, and osteoporosis. Salary is competitive. AHAF offers an excellent benefits package and is an Equal Opportunity Employer.

Science Vol. 249
DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
Food and Drug Administration
Center for Food Safety and Applied Nutrition
Office of Toxicological Sciences

The Division of Toxicological Studies has several positions available for scientists with substantial postdoctorate or equivalent experience in conducting and directing research in toxicology and related sciences.

**Position**

Chief, Metabolism Branch
Division of Toxicological Studies
Office of Toxicological Sciences
Center for Food Safety and Applied Nutrition
GM-15-Interdisciplinary

Salary $59,216-$76,982 per year depending on qualifications. Work involves managerial responsibility for a multi-discipline branch focusing on pharmacodynamics and pharmacokinetics of food additives, chemical contaminants and other substances added to the food supply. Studies are conducted on rodents, dogs and mini-pigs. Cooperative studies are conducted with other Centers within the Food and Drug Administration.

**Qualifications**

Candidate must have experience in conducting/supervising pharmacodynamic/pharmacokinetic studies.

**Position**

Pharmacokineticist
Division of Toxicological Studies
Office of Toxicological Sciences
Center for Food Safety and Applied Nutrition
Salary $29,891-$65,444 per year depending on qualifications.

Work involves conducting research in the pharmacokinetics of food-borne chemical substances and using research data for pharmacokinetic modeling. Background in physiologically-based pharmacokinetics and computer modeling experience using SIMUSOLV.

**Qualifications**

Candidate must have a strong background in pharmacokinetics and mathematics or degree in pharmacology with training in pharmacokinetics.

**Position**

Teratologist
Division of Toxicological Studies
Office of Toxicological Sciences
Center for Food Safety and Applied Nutrition
Salary $29,891-$65,444 per year depending on qualifications.

Work involves designing, conducting, and reporting of GLP reproduction/teratology studies, including shorter-term approaches, to evaluate reducing uncertainties in risk assessment, diet-toxicity interactions, early indicators of toxicity attributable to long-term exposures, and the safety of food additives/contaminants and cosmetic ingredients, as required.

**Qualifications**

Candidate must have experience in the conduct of reproduction and/or teratology studies.

**Position**

Toxicologist
Division of Toxicological Studies
Office of Toxicological Sciences
Center for Food Safety and Applied Nutrition
Salary $29,891-$65,444 per year depending on qualifications.

Work involves designing, conducting, and reporting of GLP sub-chronic, chronic, and carcinogenesis studies to evaluate reducing uncertainties in risk assessment, diet-toxicity interactions, early indicators of toxicity attributable to long-term exposures, and the safety of food additives/contaminants and cosmetic ingredients, as required.

**Qualifications**

Candidate must have experience in the conduct of in vivo toxicology studies.

**U.S. CITIZENSHIP REQUIRED**

CANDIDATES MUST MEET ALL CIVIL SERVICE REQUIREMENTS

Send curriculum vitae, bibliography and Standard Form 171 (Personal Qualifications Statement) to:

S[356x37]DNEY GREEN, PH.D.
DIRECTOR, DIVISION OF TOXICOLOGICAL STUDIES
FOOD AND DRUG ADMINISTRATION
200 "C" Street, S.W. (HFF-160)
Washington, DC 20204

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**1991 COMPETITION**

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**MD-PhD POSTDOCTORAL FELLOWSHIPS**

**FIVE FELLOWSHIPS AVAILABLE**

The Merck Sharp & Dohme Research Laboratories, through its Academic Development Program, and the American Federation for Clinical Research Foundation announce the first competition for the MERCK-AFCR Foundation MD-PhD Postdoctoral Fellowships to support the further training of MD-PhD scientists.

**FELLOWSHIP TERMS**

- The candidate must have completed an MD-PhD educational program and be accepted into a postdoctoral training program.
- Fellowships are intended for independent research in the basic biomedical sciences, including the fields of biological chemistry, cellular, molecular, and structural biology, genetics, microbiology, immunology, pharmacology, physiology, and pathology.
- First-year support consists of a $40,000 stipend and $3,000 allowance for travel, journal subscriptions, and society memberships. In addition the university will receive a $7,000 grant for supplies related to the funded research. Indirect costs will not be allowed.
- The Fellowship is renewable for an additional two years.
- The Fellow should devote 80% of his/her time to research. Each Fellow will spend up to three days in the Merck Research Laboratories during his/her tenure as award recipient and present research results. Travel support will also be provided for the Fellow’s mentor. The Fellow will also be expected to attend a Regional or National AFCR meeting each year and submit an abstract.
- Applicants should be citizens of the U.S. or Canada or permanent residents of the United States.

**FELLOWSHIP APPLICATION TERMS**

The applicant should submit originals and 8 copies of the following to the AFCR's address below:

- A curriculum vitae and a one-page abstract of the proposed research;
- A proposal of 8 to 10 pages, including background and references;
- A statement of the applicant’s career goals;
- Two letters of recommendation;
- Two reprints of published papers representative of the applicant’s research; and
- A letter from the mentor describing how the proposed research will contribute to the development of the applicant as a creative scientist. The letter should state the name of the institution, the department, and its chairperson.

**IMPORTANT DATES**

The deadline for receipt of applications is October 1, 1990. Letters to Fellowship recipients will be mailed by January 1, 1991. The Fellowship will begin the following July 1st unless otherwise agreed.

**SEND APPLICATIONS AND INQUIRIES TO:**

MERCK-AFCR Foundation Postdoctoral Fellowships
Ms. Jean Haddock, Executive Director
6900 Grove Road
Therofare, NJ 08086
Tel: (609) 848-7072; Fax: (609) 853-5991
Analytical Protein Chemist

We are seeking a qualified individual to initiate and direct a protein chemistry group responsible for analytical characterization and formulation of protein and peptides as therapeutic products. The successful candidate will possess a Ph.D. in Chemistry with several years of industrial experience in either medicinal, analytical or protein chemistry. A strong background and practical experience in the determination of molecular structure, size, shape, aggregation status, surface charge and biological activity is essential. Please reply to Audrey McGovern, Human Resources Administrator.

Amylin Corporation
9373 Towne Centre Drive
Suite 250
San Diego, CA 92121
Tel. (619) 552-2200
Fax (619) 552-2212

Amylin is an equal opportunity employer.

MANAGING EDITOR
SCIENCE Magazine

Prestigious weekly journal of science is seeking Managing Editor to supervise selection, recruitment, editorial processing of manuscripts, & general supervision of editorial department of SCIENCE. Position requires strong background in science plus 5 yrs. experience on a scientific journal. At least 3 yrs. supervisory experience required. Candidate expected to have extensive experience with scientific community, manuscript selection & peer review. A working scientist with administrative and journal experience would also be considered.

Interested applicants should send letter of application including minimum salary requirements & resume to:

AAAS
Debra Wright
1333 H St. NW, Suite 854
Washington, DC 20005

EOE

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SCIENCE, 1515 Broadway, NY, NY 10036

CURRENT DISTRIBUTION 160,000
Multidimensional Magnetic Resonance
Memorial Sloan-Kettering Cancer Center

Sloan-Kettering Institute, Memorial Sloan-Kettering Cancer Center is seeking an individual at the Assistant Member level to establish an independent program in multidimensional magnetic resonance studies of biologically active molecules. While the research activity will be independent, it is expected that the successful candidate will interact with other investigators at the Institute who are concerned with protein, nucleic acid and oligosaccharide structure and conformation. In support of these goals, the Institute will make a significant investment in state-of-the-art magnetic resonance facilities and associated computational resources.

Applicants should provide a curriculum vitae and bibliography, three or more letters of recommendation from knowledgeable senior scientists in the field, and a thorough statement of research goals with some representative specific proposals.

All materials should be sent to:
Richard A. Rifkind, M.D.
Chairman, Sloan-Kettering Institute
Memorial Sloan-Kettering Cancer Center
1275 York Avenue
New York, New York 10021

An Equal Opportunity/Affirmative Action Employer

RESEARCH IN CELL TRANSPLANT THERAPY:
Cell Biotech, Inc., is a rapidly growing leader in the development of technology for the treatment of disease by cell transplantation. The initial focus of this biotherapeutic company is in the treatment of insulin-dependent diabetes by transplantation of immunologically isolated pancreatic islets. Opportunities exist for outstanding scientists in the following fields to be involved in basic research, product development, and clinical trials:

Transplantation Immunologist
Ph.D. in immunology or related area to perform basic research in immune response to allogenic and xenogenic transplants and to synthetic materials used in immunosuppression. Should have experience in cellular transplant immunology, including cytokine response, as well as in complement activation.

Cell Biologist
Ph.D. in cell biology or related area to perform basic research in graft function, both in vitro and in vivo. Should have good technique in molecular biology and electron microscopy.

Histotechnologist
Ph.D. in histology, cell biology or related area to perform basic research in the evaluation of transplant function and the response of the host to the transplanted tissues and materials. Should have extensive experience in histology, histochemistry, immunohistochemistry, and electron microscopy.

Successful applicants will have the opportunity to join a stimulating and well-funded multidisciplinary research team of scientists, engineers and physicians in a fast-moving young biotechnology company in the Orange County/Los Angeles area. Please send or fax your curriculum vita and the names of references to Sam Anderson, President & CEO, Cell Biotech, Inc., 2080 Century Park East, Suite 500, Los Angeles, CA 90067; telefax (213) 277-3529. Cell Biotech is an affirmative action/equal opportunity employer.

B.S./M.S. SCIENTIST
Drug Metabolism
Environmental Safety

The Animal and Drug Exploratory Drug Metabolism Department at Merck Sharp and Dohme Research Laboratories has an opening for a highly motivated B.S./M.S. chemist/biochemist who is interested in pursuing a career in drug metabolism and environmental studies.

The successful candidate will be involved with in vivo and in vitro metabolism studies of animal health drugs and the determination of their environmental fate and effects. The candidate should have some knowledge in drug metabolism with demonstrated strength in modern analytical techniques such as HPLC. Other desirable qualifications include:

- Experience in the isolation, purification and characterization of metabolites from biological and environmental matrices.
- Experience in handling radiolabeled chemicals.
- Skills in small animal handling techniques.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. For consideration, send your summary with the names of three references to Human Resources Manager, Merck & Co., P.O. Box 2000, Rahway, New Jersey 07065. An equal opportunity/affirmative action employer M/F/V/H.

RESEARCH ASSOCIATES
Bristol-Myers Squibb Pharmaceutical Research Institute continues to expand our efforts in basic biomedical research. New research laboratories are currently under construction at our research headquarters in Princeton, New Jersey. More than at any time in the past, our commitment to basic biomedical research, both at the Institute and through our academic research alliances has never been stronger.

Receptor Pharmacology
Conduct molecular pharmacology research in the areas of radioligand-receptor binding and membrane signal transduction enzyme activity assays. Dept. #122A

Receptor Molecular Biology
Primary areas of involvement will include the expression of cloned genes in mammalian cells through transient and stable transfection, library screening and DNA sequencing. Dept. #122B

Pharmacology
Conduct experiments involving measurement of renal and cardiovascular function. This will entail performing surgery for acute and chronic in vivo models, performing analytical assays, and coordinating details of chronic animal studies. Dept. #122C

Candidates for these positions should possess a BS or MS in a relevant scientific discipline along with several years research experience.

Please forward your resume to (including dept. code #): Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.

Bristol-Myers Squibb
Pharmaceutical Research Institute
The Research Division in RHEUMATOLOGY of an important pharmaceutical research center located in PARIS suburb is looking for

**A research worker in cell culture and bone tissue**

The profile: a graduate from university (Ph.D.) if possible and Post-Doctorate having good knowledge in bone biochemistry.

Interested by the creation of new molecules, particularly for the treatment of osteoporosis.

He will take in charge the culture unit within a young team of research working on bone metabolism.

Thanks for sending a manuscript letter, C.V. and claims to PUBLIVAL/7003 - 27 Route des Gardes, 92190 MEUDON (FRANCE).

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**Drug Discovery Biochemist**

We are an established world wide pharmaceutical company seeking a senior level Biochemist for our expanding Molecular and Cell Biology department.

The selected individual will lead a group of scientists in the discovery of new drugs for the treatment of inflammatory and infectious diseases. This individual will actively participate in multidisciplinary project teams, applying their biochemical expertise to the selection of new chemical entities for development as drugs.

Requirements include a Ph.D. or equivalent with 2-5 years of additional experience in an academic or industrial research setting. The successful candidate will have a strong record of accomplishment in the area of biochemical pharmacology and the selection and implementation of biochemical assays as well as a knowledge of enzyme characterization and kinetics. The ideal applicant will have experience in the areas of inflammation, immunology, infectious diseases, or other biological areas, including familiarity with enzyme isolation. Previous supervisory experience is also preferred.

Please send your resume, in confidence, to: Searle, Human Resources, Dept. PB6, 4901 Searle Parkway, Skokie, IL 60077.

An equal opportunity employer M/F/H.

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**Director of the Environmental Criteria and Assessment Office, Cincinnati, Ohio**

The U.S. Environmental Protection Agency is seeking highly qualified candidates for the position of the Director of the Environmental Criteria and Assessment Office, Office of Health and Environmental Assessment, located in Cincinnati, Ohio, a senior executive level position. This Office, a component of EPA's Office of Research and Development, has major responsibilities in the Agency for the scientific assessment of the risks imposed by environmental pollutants on human health and the environment. The Office serves as a focal point for the preparation of scientific risk assessments and for providing data, advice and information to support other Agency Offices which have responsibility for making regulatory decisions regarding the control of environmental hazards in the United States.

Applicants should have a degree in the health or life sciences, medicine, or a related field, and professional experience demonstrating scientific competence and leadership as well as management experience. Experience in human health risk assessment, related research or public health protection is desirable. The submission procedures and the technical and executive qualifications described in the formal Vacancy Announcement must be met. Call or write for a copy of the Announcement to: Chaunta Gladney, EPA Executive Resources Staff, PM--224, 401 M Street, SW, Washington, DC 20460, telephone: 202-382-3328. Applications must be postmarked by September 25, 1990.

EPA is an Equal Employment Opportunity Employer.

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**U.S. DEPARTMENT OF ENERGY POSTGRADUATE RESEARCH PROGRAMS**

- Toxicology
- Engineering
- Fossil Energy
- Physical Sciences
- Hazardous Wastes
- Environmental Sciences
- Artificial Intelligence
- Life Sciences
- Computer Sciences
- Risk Analysis

- Research at national laboratories
- Stipends $20,000 - $41,000 depending on degree, program, research area
- Recent graduate degree
- U.S. citizens or PRAs eligible

Information and applications:

Postgraduate Research Programs
Science/Engineering Education Division
Oak Ridge Associated Universities
P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-3190
USE YOUR BACKGROUND SKILLS TO HELP US ACHIEVE OUR GOALS.

We're Anaquest, a division of BOC HEALTH CARE and a recognized leader in the research, development and manufacture of specialized pharmaceutical products. Our position of leadership in our field and unparalleled growth has resulted in unique opportunities for the following professionals:

Cardiovascular Research

The candidate we seek for this key position will be responsible for managing Bachelor's and Master's level Scientists in several anesthesia related areas. In addition, you will assess hemodynamic and respiratory effects of anesthesia/acute care related drugs. A Ph.D in Pharmacology or other life sciences and a minimum of 3 years post-doctoral experience is desired. Experience with in vivo systems is preferred. (Please address all inquiries to Box RF.)

Toxicology

The candidate we seek will conduct mechanistic research on in vivo and in vitro modeling of toxicity and will examine the potential of new chemical entities to produce target organ damage. Additionally, the candidate will serve as Study Director for research conducted at Contract Toxicology Laboratories. An MS in Toxicology or a related discipline and a minimum of two years of relevant experience in animal handling, isolated organ perfusion and/or cell isolation techniques are desired. (Please address all inquiries to Box SW.)

Vivarium Supervisor

The individual we seek for this key position will direct the daily activities of vivarium. This will involve ordering animals, supervising technicians and maintaining the facility in accordance with current USDA regulations. A Bachelor's degree in Biology, Zoology or related life sciences and 2-4 years experience supervising animal care are required. AALAS technologist certification is preferred. Familiarity with current federal regulations and animal welfare issues is essential. (Please address all inquiries to Box MB.)

Biochemistry

The individual we seek will perform receptor binding in the biochemistry lab. Additional responsibilities will include enzymology and HPLC with electrochemical detection of catecholamines. A BS/MS in biochemistry or pharmacology and experience in receptor binding are required. Familiarity with radioisotopes is essential. (Please address all inquiries to Box CP.)

In return, Anaquest offers a competitive compensation package that includes an excellent salary and comprehensive benefits, as well as a highly professional work environment. For immediate confidential consideration, please send your resume, indicating position of interest and Box number to: Human Resources, Anaquest, 100 Mountain Avenue, Murray Hill, NJ 07974. We are an equal opportunity employer M/F/H/V.
POSITIONS OPEN

IMMUNOLOGY FACULTY POSITION

Applications are invited for a full-time tenure-track faculty position at the ASSISTANT OR ASSOCIATE PROFESSOR level in the Molecular/Cellular Immunology in the Department of Microbiology and Immunology at the University of Colorado School of Medicine. Applicants should have training, interests, and skills in the use of current molecular and cellular techniques for studying the function and/or development of the immune system. Strong preference will be given to those candidates with experience and accomplishments in molecular biological approaches to the above areas. Established areas of ongoing research within the department include immunogenetics and autoimmune diseases, programmed cell death, signal transduction, Ig genes, and T cell development. Successful applicants will be expected to initiate and maintain an active, independent research program, participate in the teaching of immunology to medical students and become an active member in an established graduate training program. Laboratory space and startup funds will be provided by the department. Candidates with a commitment to excellence in research and teaching are encouraged to send curriculum vitae, a statement of research and teaching interests, and the names of three references by 1 November 1990 to: Lewis I. Pizer, Ph.D., Chairman, Department of Microbiology/Immunology, Box B-175, University of Colorado Health Sciences Center (UCHSC), Denver, CO 80262.

UCHSC is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

NEW ZEALAND UNIVERSITY OF CANTERBURY SENIOR LECTURER OR LECTURER IN CIVIL ENGINEERING

Applications are invited for a position, as above, in the Department of Civil Engineering from suitably qualified candidates. The department is particularly interested in applicants with special knowledge of environmental engineering. The appointee will be expected to expand the teaching and research in environmental topics, at undergraduate and graduate level. Applicants should have expertise in one or more of the following areas: water and wastewater treatment, solid and hazardous waste management, atmospheric pollution, and aspects such as environmental impact assessment. The successful candidate may also be required to contribute to other civil engineering undergraduate courses. The salary is on a scale from $NZ52,500 to $NZ63,500 per annum (bar), and the range from $NZ62,800 to $NZ64,500, and for lecturers on a scale from $NZ49,000 to $NZ52,800 per annum (bar), and from $NZ45,000 to $NZ47,200 per annum. Applications close on 28 September 1990. Further conditions of appointment, quoting Position No. CE35, may be obtained from the undersigned to whom applications must be addressed: A. W. Hayward, Registrar, University of Canterbury, Private Bag, Christchurch, New Zealand.

The university has a policy of Equality of Opportunity in Employment.

MOLECULAR NEUROBIOLOGY

A position of RESEARCH ASSOCIATE (Ph.D. required) is available in the areas of nucleic acid processing and prohormone gene isolation and structure. Ongoing projects include neuropeptide isolation, oligonucleotide probe generation, PCR/MOPAC, and so forth. The successful candidate will have a sound knowledge of current molecular biology and be familiar with protein purification and enzyme assay methods. The appointment is for 1 year renewable by mutual agreement. Starting salary: $25,000 to $30,000 per annum. For further details, contact resume to: Dr. Richard B. Imberski, Department of Zoology University of Maryland c/o Dr. E. P. Masler Department of Biology ARS-PSI-1RL B-306, R-309, BARC East Beltsville, MD 20705 Telephone: 301-544-1732

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

POSITIONS OPEN

Stanford University. The Department of Electrical Engineering seeks candidates for one or more tenured or tenure-track FACULTY POSITIONS in the field of electro-magnetics and space electronic systems for remote sensing, as applied to experimental research in one or more areas of planetary (including terrestrial and extraterrestrial) electro-optics. Detailed description of the positions can be obtained from: Professor Joseph Goodman, Chairman, Department of Electrical Engineering, McCullough 180, Stanford University, Stanford, CA 94305-4055. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available immediately to study the production and characterization of microbially produced surfactants. A Ph.D. in chemistry, biochemistry, or biotechnological engineering is required. Experience in isolation of natural products and structure determination by NMR is desirable. Please send résumé and names of references to: Dr. George Georgiou, Department of Chemical Engineering or Dr. Mukul M. Sharma, Department of Petroleum Engineering, University of Texas, Austin, TX 78712. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available immediately to study the role of proteases and protease inhibitors in Alzheimer's disease (Neuroscience 32, 715 (1989); Neurobiol Aging 11, 123 (1990)). An NIH training grant is available for U.S. citizens or permanent residents with experience in molecular biology and enzymology. Please send curriculum vitae, relevant reprints, and three letters of recommendation to: Dr. Carmela R. Abraham, The Arthritis Center, 208 University Hospital, Austin, TX 78712. Positions in Animal Science, 711 East Concord Street, Boston, MA 02118-2394.

POSTDOCTORAL POSITION. Available for studies on mammalian inosinase cell lines. These studies will focus on the isolation and characterization of new drug resistance-related genes and their products. Experience in gene cloning technology highly desirable. Send curriculum vitae and names of references to: Dr. Melvin S. Center Division of Biology, Ackert Hall Kansas State University (KSU) Manhattan, KS 66506

KSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available in September 1990 to study problems of protein structures by UV/visible spectroscopy, circular dichroism, fluorescence, light scattering, and analytical ultrafiltration. Experience in enzyme kinetics, blood coagulation assay, and 2D-NMR preferred but not necessary. Send curriculum vitae to: Dr. German B. Villanueva Department of Biochemistry and Molecular Biology New York Medical College Valhalla, NY 10595

POSTDOCTORAL POSITION. In protein-DNA interactions to investigate a new mechanism of restriction enzyme modulation by DNA (PNAS 86, 9707 (1989)) and its application to restriction enzyme cleavage and the control of gene expression. Experience in molecular biology or enzymology desired. Send curriculum vitae and three references to: Dr. Michael D. Topal, Lerner Cancer Research Center, CB#7295, University of North Carolina Medical School, Chapel Hill, NC 27599. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in molecular cardiovascular pharmacology available immediately for a recent Ph.D. in pharmacology, biochemistry, or microbiology. Project is related to the molecular pharmacology of purine receptors and the involvement of second messenger systems. Salary NIH level. Experience in receptor and/or molecular biology or pharmacology preferred. Send curriculum vitae and three letters of recommendation by 1 September 1990 to: Dr. S. Jamal Mustafa, Department of Pharmacology, East Carolina University, Greenville, NC 27834. Federal law requires proper documentation of identity and employment eligibility at the time of employment. Affirmative Action/Equal Opportunity Employer.

PSYCHONEUROIMMUNOLOGY

Two year POSTDOCTORAL (Ph.D. or M.D.) RESEARCH FELLOWSHIPS available to study immunomechanisms of multiple sclerosis. The laboratory uses an animal model of the disease in which the peripheral immune system is depressed and the capacity of the central nervous system to respond to adaptive immune mechanisms is compromised. Research is being conducted to determine the role of the peripheral immune system in the development of the disease. Applications should be submitted to: Dr. Dana Bobrow, Memorial Sloan-Kettering Cancer Center, Box 457, 1275 York Avenue, New York, NY 10021.

POSTDOCTORAL FELLOW ENZYMEOLOGY AND METABOLISM OF VITAMIN-A IN SKIN UNIVERSITY OF MICHIGAN MEDICAL CENTER

The Department of Dermatology is seeking an individual to join a multidisciplinary group to investigate the metabolic transformations of retinoids (vitamin-A metabolites) in skin, with an emphasis on the properties and regulation of the enzymes involved in retinoid metabolism. This will facilitate an understanding of the role of acyl/retinoids in the differentiation and growth of skin and the capacity of skin to metabolize exogenous retinoids. Funding is available for up to five years with a possibility of long-term employment. Interested persons should send their curriculum vitae to: John J. Voorhees, M.D., Chairman, Department of Dermatology, University of Michigan Medical Center, 1500 East Medical Center Drive, 1910 Taubman Center, Ann Arbor, MI 48109-0314.

WADSWORTH POSTDOCTORAL FELLOWSHIPS IN MOLECULAR BIOLOGY

Applications are invited for postdoctoral positions in the following research areas of molecular biology:

- Molecular pathogenesis of virus-induced pancreatic disease.
- Replication and structure-function analysis of replication origin of human adenovirus.
- Molecular analysis of opportunistic pathogens in HIV infection.

Individuals experienced in the following areas are encouraged to apply: virology, molecular biology, nuclear acid and/or protein chemistry, genetics.

The Wadsworth Center for Laboratories and Research provides a stimulating research environment, combining excellent facilities with a multidisciplinary and interactive program in molecular biology and genetics. This unique research facility houses the graduate program of the School of Public Health of the State University of New York at Albany. Offers the cultural and recreational advantages of an upstate New York community, with ready access to major metropolitan areas (New York, Boston, Montreal).

This position is funded through Health Research, Inc., and salaries are competitive and commensurate with experience.

Interested candidates should forward their curriculum vitae and have three letters of reference sent to:

Dr. Marlene Belfort Chair, Search Committee Wadsworth Center for Laboratories and Research P.O. Box 500 Albany, NY 12201-0509

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Call SCIENCE at 202-326-6555 for details.

SCIENCE, VOL. 249
**POSTDOCTORAL ANNOUNCEMENT**

Postdoctoral fellowships available for qualified persons to participate in ongoing studies of the biochemical basis of insulin resistance in a diabetes-prone population. Insulin-resistant subjects demonstrate a post-receptor defect in insulin signal transduction that affects the ability of the hormone to regulate activities of a variety of protein kinases and protein phosphatases including S6Kinase, type 1 protein phosphatases, and protein tyrosine phosphatases. Preference will be given to individuals with a recent Ph.D. in biochemistry or a related discipline and with prior experience in protein phosphorylation research.

Send letter of application, curriculum vitae, and contact information of three references to: James Sommercorn, Ph.D., Clinical Diabetes and Nutrition Section, National Institutes of Health, 4212 N. 16th Street, Room 541, Phoenix, Arizona 85016.

NIH is an Equal Opportunity Employer

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**POSITION ANNOUNCEMENT**

**EXTENSION SPECIALIST, SUGAR AND OIL CROPS AND ALTERNATIVE CROPS IN ROTATIONAL SYSTEMS.** The Department of Agronomy and Range Science, University of California, Davis, CA 95616-8515. Academic career-track position, Assistant/Associate Cooperative Extension Specialist. Applied research responsibilities: leadership in activities related to the ecophysiology, genetics, pest management, and soil/plant nutrition of multi-species production systems involving sugar and oils/crops and alternative crops in rotational systems. Educational responsibilities: leadership of statewide extension education and information programs related to sugar crops, oil crops, and alternative crops in rotational systems, coordination of work group activities on above crops, service as a teaching resource person for CE County/Area Advisors, preparation of educational materials, and presentation of information at various industry and/or public programs. Responsibility for offering guest lectures and seminars and supervising graduate student research. Provides liaison for research and extension education activities among county advisors, specialists, subject matter departments, industry, governmental agencies, scientific and other groups, individuals, and the public at large. Responsibility for developing programs to meet the needs of underrepresented groups. The program will comply with all applicable federal and state laws and regulations and University, Campus, and Division policies and procedures related to civil rights, affirmative action, and equal employment opportunity. Ph.D. in Crop Science and/or Crop Protection disciplines or related fields. Experience in crop production agriculture is highly desirable. Send a statement of research and extension education interests, curriculum vitae, publication list, reprints of key publications (up to five), copies of undergraduate and graduate transcripts, and the names, addresses, and telephone numbers of at least five professional references by August 31, 1990 to: Lee Jackson, Recruitment Committee Chair, Department of Agronomy and Range Science, University of California, Davis, CA 95616-8515. Telephone: (916) 752-0701 FAX: (916) 752-4361.

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**Scientist**

CIBA-GEIGY’s Agricultural Division, a leader in genetic engineering, crop improvement and crop protection chemicals, has an outstanding opportunity at our Agricultural Biotechnology Research Unit in Research Triangle Park, NC. Primary focus of this position will be the production of monoclonal antibodies and development of immunoassays for detection and quantitation of proteins and haptons in plants.

Qualified candidate must have a BS/MS in biological science with 3-5 years experience in animal cell culture, monoclonal antibody technology and immunochemistry. Basic biochemical techniques such as gel electrophoresis, western blotting and affinity purification are required. Additional experience in biochemical separation and protein chemistry would be helpful.

Our state-of-the-art facilities are conveniently located, with access to several outstanding universities. We offer an excellent salary and benefits package including relocation assistance, and outstanding career advancement opportunities. Please forward your resume with three letters of professional reference and transcripts to: Dr. Mary-Dell Chilton, CIBA-GEIGY Corporation, PO Box 12257, Research Triangle Park, NC 27709. We Are An Equal Opportunity Employer M/F/HV.

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**Microbiologist**

BP America, the nation’s 17th largest industrial corporation and part of the world’s third largest energy company, has an immediate opening for a Microbiologist to join a multidisciplinary team of scientists doing important research in oil field, environmental, and related areas of microbiology.

We are looking for an individual with an MSc in Microbiology or a related discipline with 3 or 4 years experience in industry or an academic research environment. You should be able to work with business professionals as well as fellow scientists and technicians as you develop new ideas and test them in a state-of-the-art laboratory setting. Communication skills, particularly in writing reports, are essential.

BP’s Warrensville Research Center is located on a wooded 100 acre site in a suburb of Cleveland, Ohio. We value and reward performance with an excellent salary and benefits package, a comprehensive relocation policy, and opportunities for career growth and advancement.

If you are interested and qualified to join a leader in the petroleum industry, send your detailed resume in complete confidence to: Employee Development; BP Research; 4440 Warrensville Center Rd.; Cleveland, OH 44128.

An Equal Opportunity Employer
NO THIRD PARTY INQUIRIES. PLEASE.

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**BP AMERICA**
GENETIC THERAPY, INC.

Research Scientists, Group Leaders, Laboratory Directors

Genetic Therapy, Inc. is a leader in the field of gene transfer and gene therapy. In collaboration with researchers at the National Institutes of Health, GTI has been associated with the first clinical testing of gene transfer involving the use of retroviral vectors.

As part of an expansion of our R & D activities, GTI is looking for Ph.D. or M.D. scientists at all levels. Scientists or clinicians with expertise and experience in retrovirology, immunology, tumor cell biology, lymphokine research related to cancer treatment, liver cell biology, bone marrow stem cell biology, cell implantation techniques and general recombinant DNA or mammalian cell culture techniques are encouraged to apply.

GTI has state of the art research facilities, and a number of formal collaborations at the nearby National Institute of Health. GTI offers an exciting and stimulating research environment as well as competitive compensation and benefit programs.

Applicants should send their resumes, and the names and addresses of two references to:

Genetic Therapy, Inc.
Human Resources
19 Firstfield Road
Gaithersburg, MD 20878

GTI is an equal opportunity employer.

PLANT AND ANIMAL ECOLOGISTS

EG&G ENERGY MEASUREMENTS is expanding its staff of research ecologists to support existing Department of Energy environmental programs at the Elk Hills Naval Petroleum Reserve (Bakersfield, California) and Nevada Test Site (Las Vegas, Nevada). Ecologists with B.S., M.S., and PhD degrees with specialties in plant ecology, animal ecology, soil science, reclamation, habitat impact monitoring and mitigation are being recruited. Scientists will participate in:

* interdisciplinary community ecology studies
* threatened/endangered species studies
* impact assessment and mitigation
* reclamation

Projects at Elk Hills focus primarily on assessing impacts of development on habitat and population dynamics of the endangered San Joaquin kit fox, blunt-nosed leopard lizard, giant kangaroo rat, and Tipton's kangaroo rat. Reclamation, habitat manipulation, and other mitigation techniques are being tested and implemented.

Projects at the Nevada Test Site evaluate and mitigate impacts of diverse activities on the desert tortoise and protected plant species. Broader impact assessment and mitigation studies on general plant, invertebrate, and vertebrate populations and communities also are being conducted. Populations of interest include reptile, non-game bird, small mammal and insect.

Qualified candidates send resumes, transcripts, and example of written material to the address below. Also, a completed application form is required and can be requested at the address below:

EG&G ENERGY MEASUREMENTS
Santa Barbara Operations
Attn: Technical Recruiting
130 Robin Hill Road
Goleta, California 93117
(805) 967-0456

Female and minority applicants are encouraged to apply. A pre-employment physical which includes drug screening and U.S. citizenship required. An equal opportunity employer.
MOLECULAR BIOLOGIST
RESEARCH OPPORTUNITY

Public Health Service
National Institutes of Health
National Institute of Environmental Health Sciences
Research Triangle Park, North Carolina

Position is available in the Eicosanoid Biochemistry Workgroup of the Laboratory of Molecular Biophysics, which studies arachidonic acid and linoleic acid metabolism or prostaglandin H synthase and lipooxygenases in cell culture as related to cell growth. The research involves the application of molecular biology to the study of the structure and function of these enzymes. These studies could require the use of cloning techniques, Northern/Southern analysis, DNA sequencing, site-directed mutagenesis and the expression of cloned genes in suitable cell lines. Expertise in molecular biology preferred. General Requirements: Applicants must have a Ph.D. or equivalent degree in Biochemistry, Cell Biology, Molecular Biology, Physiology, Pharmacology, or closely related field, and show evidence of ability to carry out independent research. Candidates with up to 7 years of postdoctoral research experience will be considered. For more information, contact Dr. Thomas E. Eling at (919) 541-3911.

For prompt consideration, send cover letter indicating area of interest, Curriculum Vitae, and three letters of reference by September 24, 1990 to: Mr. Bruce Wiggins (Code HNV21); NIEHS Personnel Office; P.O. Box 12233;
Research Triangle Park, NC 27709.

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MOLECULAR BIOLOGY
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DIRECTOR OF GRANTS AND CONTRACTS

The Pennsylvania State University College of Medicine invites applications for the position of Director of Grants and Contracts. The position reports to the Associate Dean for Academic Affairs, Research and Graduate Studies.

Specific duties and responsibilities of the Director include:
1) providing assistance to faculty seeking support for research, education and service programs,
2) verifying institutional compliance with University and sponsor policies,
3) preparing and submitting applications for grants, contracts, and cooperative agreements to external agencies,
4) preparing, reviewing, and negotiating contracts,
5) expanding the external funding basis for staff projects.

Excellent skills in working with faculty and administrators throughout the College and a strong management background are required.

The candidate should have extensive experience with grant/contract administration either as a faculty member or a research administrator and have a thorough knowledge of accounting and budgetary requirements of funding agencies. Preference will be given to candidates with doctoral degrees and experience in grant/contract administration at a research university or comparable institution.

Please send a letter summarizing qualifications, a curriculum vitae and names of at least three references to:
C. McCallister Evarts, M.D.
Senior Vice President for Health Affairs
and Dean, College of Medicine
The Milton S. Hershey Medical Center
The Pennsylvania State University
College of Medicine
P.O. Box 850
Hershey, Pennsylvania 17033

Deadline for receipt of applications is September 30, 1990.

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POSTDOCTORAL ASSOCIATE, NEUROBEHAVIORAL PHARMACOLOGY. Position available for research on opiate drugs and small peptides. Behavioral assays are used to study drug-receptor interactions relevant to tolerance, dependence, and potential for abuse. Requires Ph.D. in pharmacology, neurology, biology, or related fields with emphasis in molecular or cellular biology. Send curriculum vitae, names of three references, and brief statement of interest to: Dr. Stephen G. Holzman, Ph.D., Department of Pharmacology, University School of Medicine, Atlanta, GA 30322. Emory University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS AVAILABLE. The Department of Dermatology, University of Miami, has available several postdoctoral positions in molecular and cellular biology. M.D.'s desiring molecular biology training are welcome. Write to: Dr. William G. North, Department of Physiology, Dartmouth Medical School, Hanover, NH 03756. Dartmouth College is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. The Neurogenetics Unit, Duke University Medical School, encourages the characterization of gene products of pain transmission, and small peptide receptors. Behavioral assays are used to study drug-receptor interactions. Requires Ph.D. in pharmacology, neurology, biology, or related fields with emphasis in molecular or cellular biology. Send curriculum vitae, names of three references, and brief statement of interest to: Dr. William G. North, Department of Physiology, Dartmouth Medical School, Hanover, NH 03756. Dartmouth College is an Equal Opportunity Employer.

Molecular and cellular biologists are invited to apply for postdoctoral positions in the laboratories of Drs. J. F. Gausea and E. C. Beitz. The Neurogenetics Unit, Massachusetts General Hospital (Harvard Medical School). Successful candidates will join ongoing projects to clone and characterize genes responsible for inherited neuropathy and psychiatric diseases; characterize the molecular mechanisms of nervous system tumors; and the development of gene transfer technologies for use in the mammalian nervous system. Applicants should send curriculum vitae and two letters of recommendation to: Dr. J. F. Gausea, Director, Molecular Neurogenetics Laboratory, Massachusetts General Hospital—East, Building 149, 13th Street, Charlestown, MA 02129.

UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO (UCSF) AND BERKELEY GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS IN PARASITE BIOLOGY. The Interdepartment Program for Molecular Parasitology (IPMP) of the University of California at San Francisco and Berkeley has several openings for postdoctoral fellows and graduate students interested in research on the basic biology of host-pathogen interactions. The IPMP is an interdisciplinary graduate group studying the biology of protozoan, helminth, and bacterial pathogens. Faculty in the program hold appointments in the Departments of Medicine and/or Pharmaceutical Chemistry at UCSF, and/or in the School of Public Health at UC Berkeley. The program is supported by a grant from the John D. and Catherine T. MacArthur Foundation.

Individuals having an interest in parasite biochemistry, molecular biology, or immunology are especially encouraged to apply. Postdoctoral applicants should submit their curriculum vitae, a short summary of their research interests (one page), and arrange to have three letters of reference sent to: Dr. Nina Agabian, IPMP Recruitment, UCSF School of Pharmacy, Box 1204, San Francisco, CA 94143-1204. Graduate students should either apply through the UC Berkeley School of Public Health, Department of Biomedical and Environmental Sciences, or the Department of Pharmaceutical Chemistry at UCSF.

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IDM Corporation is an Austin-based manufacturer of process monitoring systems. Interested parties are invited to send a résumé with salary history to:

International Digital Monitoring Corporation 1901 Rutland Drive Austin, TX 78758 Attention: Personnel Department An Equal Opportunity Employer.

RESEARCH DEVELOPMENT AWARDS AT THE NATIONAL ZOOLOGICAL PARK

The National Zoological Park (NZP) is offering RESEARCH FELLOWSHIPS. The opportunity to complete a major piece of work in their specialty, and to gain experience in research opportunities specific to zoological parks, particularly in the areas of evolutionary biology, animal behavior, physiological zooology, ecology, socio-biology, reproductive physiology, conservation biology, and veterinary sciences. Applicants with a distinguished record of research contributions and those whose interests complement the NZP's current professional research staff are preferred. Each award is a maximum of 3 years; stipends to be commensurate with professional level and experience. Applicants must be at least 3 years postdoctorate. Timing and duration of the fellowship is negotiable, but the appointment must be activated within a year of the award and may not exceed a total of 36 months in duration (awards may be divided into several intervals, not less than 6 months each).

Field research is appropriate; however, fellows are to be primarily based at the NZP and are encouraged to make arrangements and collaborations with NZP staff. Individuals who have received support from or through the NZP for a significant period during the preceding 5 years are ineligible to apply.

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**STAFF SCIENTISTS & POSTDOCTORAL FELLOWS**

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Regeneron Pharmaceuticals, a company dedicated to developing therapeutic agents for degenerative and traumatic neurological diseases, is seeking to apply recent advances in the understanding of neuronal growth and regeneration.

Regeneron offers an exciting, collegial environment in which state-of-the-art molecular skills are brought to bear on outstanding problems in neurobiology and medicine. Key projects focus on the discovery, purification and molecular cloning of novel neurotrophic growth factors, and on the assessment of their biological roles as well as therapeutic potentials using innovative cell culture methods and animal models.

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- Protein Biochemistry
- Mammalian Expression Vectors
- Molecular Genetics
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- Models of Neuronal Disease

All positions in Neurobiology require a strong neuronatonical background. Experience with receptor autoradiography and/or in situ hybridization is desirable.

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Please forward your resume, in confidence, to: Ms. Carol Deaken, Regeneron Pharmaceuticals, Inc. 777 Old Saw Mill River Road, Tarrytown, NY 10591-6706. Equal opportunity employer.

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OPPORTUNITY


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Immediate opening for Chief, Division of Environmental Health, Risk Assessment, Maryland Department of the Environment. Position mainly involves health risk assessments; development of standards and criteria for various toxic agents. Qualifications: doctorate in toxicology, 4 years experience in toxicology/health risk assessment, knowledge of federal and state environmental regulations. Salary: $38,000 to $50,000. Interested candidates contact: Dr. Boon P. Lim, 2500 Broening Highway, Baltimore, MD 21224. Telephone: 410-631-3851.

SENIOR TOXICOLOGIST

Washington, DC

Coordination and development of testing procedures, selection of laboratories to conduct such testing. The supervision of scientific research regarding the safety of cosmetic ingredients: responsible for providing direction, supervision and support of a research program, including the preparation of a detailed analysis of research, and for preparation of reports which will make such research and findings understandable to other scientists and industries. The supervision and coordination of cosmetic products. This position requires an advanced knowledge of toxicology including metabolism, pharmacokinetics, and classical vivisection testing. It also requires extensive scientific research experience specifically in the area of toxicology studies, including experience in evaluating toxicity and epidemiological data and extrapolating from animal to man in determining potential hazard and assessment of risks. Ph.D. in biological chemistry/toxicology and 2 years of training in poison control research with a minimum of 2 years experience in risk assessment, knowledge of federal and state environmental regulations. Salary: $25,000 to $30,000. Interested candidates should send a resume, statement of proposed research, and three letters of recommendation directly to: Dr. Cheng-Wen Wu, Director, Institute of Biomedical Sciences, Academia Sinica, Taipei 11529, Taiwan, R.O.C.

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THE ROSE AND MAX VARN APPOINTMENT

The Weizmann Institute of Science, Rehovot, Israel, offers a limited number of visiting professorships in the natural and exact sciences. The visiting professorships are intended for candidates already holding the rank of Full Professor or equivalent and will be for a duration of 2 months to 1 year.

Deadline for submission of completed applications is: 30 November 1990.

For further information or application forms, please contact: The Academic Secretary, The Weizmann Institute of Science, Rehovot 76100, Israel. Telex: 792-8-381300, facsimile: 792-8-471667, Bitnet: RSMARJ0@WEIZMANN.

ANNOUNCEMENTS

CAENORHABDITIS GENETICS CENTER

Genetic stocks of Caenorhabditis elegans are available for use by investigators initiating or continuing research on this nematode. The center's collection of more than 1300 strains includes at least one allele of each identified gene, all available chromosome rearrangements, and selected multiply mutant stocks useful for genetic mapping. Requests for strains should include a brief statement of the research or training activity for which the stocks are intended. Recipients are asked to acknowledge the center in publications resulting from use of the strains, and to provide the center with reprints of those publications.

Inquiries should be addressed to: Mark L. Edgley, Curator, Caenorhabditis Genetics Center, Division of Biological Sciences, 110 Tucker Hall, University of Missouri, Columbia, MO 65211.

COURSES AND TRAINING

RESEARCH TRAINING IN GERONTOLOGY

The University of Texas Health Science Center at San Antonio announces the availability of POSTDOCTORAL FELLOWSHIPS supported by a training grant from the National Institute on Aging. The program is directed toward basic research in gerontology with special emphasis on the nutritional manipulation of the aging processes. Training is available in several general areas and directed by the following faculty members: metabolic regulation, endocrinology and neuroendocrinology (Bertrand, Herlihy, Katz, Masoro, Ward); exercise and energy metabolism (McGarvey); free radicals and membrane lipid peroxidation (Yu); immunology (Fernandes); cellular calcium and bone metabolism (Kalu); and molecular biology and regulation of gene expression (Chertoff, Roy). The annual stipend of up to $25,000 is limited to U.S. citizens and permanent residents. A letter of interest, curriculum vitae, reference letters from three references should be sent to: Dr. Byung P. Yu, Department of Physiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7756.
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