overall reminds us that ill health, and disease, can occur in response to a stressful experience. Studies are cited, for example, that document significant increases in morbidity and mortality among the unemployed, with considerable accompanying social and financial cost. The book is definitely worthwhile reading for its breadth of detailed examples and a fine bibliography that has been drawn from multiple disciplines that are infrequently juxtaposed by a single author.

Mary F. Dallman
Department of Physiology,
University of California,
San Francisco, CA 94143-0444

Books Received


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POSITIONS OPEN

ASSISTANT PROFESSORS OF BIOLOGY
Worcester State College invites applications for three full-time tenure-track Assistant Professor positions and a temporary one-year Assistant Professor appointment, starting in September 1993. Requirements include a Ph.D., strong commitment to teaching, and promise in research. Familiarity with liberal arts college education, teaching experience and/or postdoctoral training are desirable. We expect candidates to teach introductory courses, upper level electives and help expand our undergraduate research programs.

Areas of specialty sought include: (1) Biotechnology (Industrial experience preferred); (2) Microbiology; (3) Cellular and Molecular Biology. Lukar Pilch Animal Physiology. Lular interest and curriculum vitae (both required before you receive our formal application packet and supplemental information) should be sent to: Director of Personnel and Affirmative Action, Worcester State College, Worcester, MA 01602–2597. Screening of candidates will begin immediately; applications will be accepted until 5 February 1993. State College is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOCHEMISTRY
The Biology Department of The Citadel invites applications for a tenure-track position in molecular biology for the Fall 1993 semester. The Citadel is a nationally recognized liberal arts college, with a military format. The student body includes undergraduate cadets and 1500 graduate and evening students. Applicants should have a Ph.D. in biology or a related field and should be committed to teach in a liberal arts institution. Development of a research program suitable for involvement of undergraduates is required and the candidate will be expected to compete for extramural funding. The candidate's primary responsibilities will be developing a molecular biology program, teaching microbiology and participating in the department's introductory courses. Please send a letter of application to include a synopsis of teaching and research interests, curriculum vitae, selected reprints, and the names, addresses, and phone numbers of three references to: Dr. F. Lance Wallace, Department of Biology, The Citadel, Charleston, SC 29409 (Telephone: 803-922-5203). Application review will begin on February 5, 1993, and will continue until the appointment is made. The Citadel is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from minorities and women. The Anatomy Department of the Medical College of Ohio is reopening its search for a tenure-track or tenured NEUROBIOLOGIST studying neural organization at the molecular, cellular, or system level. Applicants for an ASSISTANT PROFESSORSHIP should have demonstrated the ability to establish an independent and funded research program. Applicants for more senior appointments should have ongoing and funded programs. Teaching responsibilities will be in histology. The Medical College and the Department of Anatomy offer excellent core facilities, very competitive salaries, and generous start-up funds. Forward curriculum vitae and the names of three to four references by February 15, 1993, to: Dr. John T. Wall, Faculty Search Committee, Department of Anatomy, Medical College of Ohio, Toledo, OH 43699–9008. Equal Opportunity Employer.

ASSISTANT PROFESSOR/IMMUNOLOGY
Two tenure-track positions at the Maisonneuve-Rosemont Hospital Research Center, affiliated to the University of Montreal, are available starting September 1993. Applicants must have a Ph.D. with postdoctoral experience in Molecular Immunology. They are expected to join a group of five investigators (4 Ph.D. and 1 Ph.D. postdoctoral trainee) and to develop an independent research program. Applicants should send curriculum vitae with a summary of present and future research interests and have at least three references to: Dr. Claude Perreault, Director, Research Center, Maisonneuve-Rosemont Hospital, 5415 L’Abeouvet Boulevard, Montreal, Quebec, Canada H3T 2M1.

POSITIONS OPEN

UNIVERSITY OF PENNSYLVANIA
Department of Physiology
School of Medicine

The Department of Physiology seeks to fill a tenure-track position, preferably at the ASSISTANT PROFESSOR level, in the area of Transport Proteins. Candidates expert in combining structure/function analyses and molecular biological techniques are especially encouraged to apply. Before March 15, 1993, please send us curriculum vitae, two reprints or preprints, and a statement of research interests. Also have three letters of reference sent to: Transport Protein Search Department of Physiology University of Pennsylvania Philadelphia, PA 19104–6085

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

FACULTY POSITION NEURAL SCIENCES

Medical College of Virginia/Virginia Commonwealth University is seeking candidates for a tenure-track position in ASSISTANT PROFESSOR in Neural Sciences in the School of Basic Health Sciences. Applicants must have an advanced degree (e.g., Ph.D., M.D. or equivalent degree) and should have two or more years of postdoctoral experience. The successful candidate is expected to be able to interact with a large and diverse group of Neuroscientists throughout the University. The candidate should also exhibit the potential to develop and maintain an outstanding research program with extramural funding. Evidence of prior extramural funding and a researcher whose interests focus on Cognitive, Developmental, Mental and/or System Neuroscience, and which complement existing emphasis in visual/visuospatial, special senses, substance abuse and neuronal dysfunction/repair is preferred. The candidate is expected to demonstrate the potential to teach health professionals and graduate students. Candidates should send a copy of their curriculum vitae, names and addresses of 3 references, and a letter describing research interests by January 30, 1993: to: Barry E. Stein, Neural Science Curriculum, Box 493, Virginia Commonwealth University, Richmond, VA 23298–0493. Virginia Commonwealth is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply. Position description available upon request.

DEPARTMENT OF BIOCHEMISTRY
James H. Quillen College of Medicine
ASSISTANT PROFESSOR

The Department of Biochemistry invites applications for the tenure-track position of assistant professor. Qualifications for the position include demonstrated ability for imaginative research, interest in graduate and medical student teaching, and at least two years of postdoctoral experience. Candidates interested in using biochemical and physical-chemical approaches to investigate the chemistry of membrane-related functions such as receptors and/or signal transduction are preferred. The successful applicant will be expected to develop a funded independent research program, to teach medical students, and to participate in the Ph.D. program in biomedical sciences.

Submit curriculum vitae, bibliography, summary of research interests (including plans for future work), and the names of three references by February 15, 1993: to: Dr. M. Lou Ernst-Fonsberg, Chair, Department of Biochemistry, Box 75401, James H. Quillen College of Medicine, East Tennessee State University, Johnson City, TN 37614–0581.

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Located within the Texas Medical Center, Baylor offers research specializations within the following programs and departments. Over 250 Ph.D. candidates share the outstanding research environment with a training faculty of productive and dedicated scientists. These programs offer unexcelled laboratory, classroom and seminar experiences in all disciplines of biomedical science. Stipends are competitive with other major centers. For specific program details, contact the indicated persons below c/o their program, Baylor College of Medicine, Houston, Texas 77030.

- **Department of Biochemistry**: Dr. Rod Kellems, Director of Graduate Studies (713) 798-4527.
- **Center for Biotechnology**: Dr. Michael Hogan, The Center for Biotechnology, 4000 Research Forest Drive, The Woodlands, TX 77381. (713) 363-8404.
- **Program in Cardiovascular Sciences**: Dr. J. C. Allen, Program Director, Dept. of Medicine. (713) 798-4977.
- **Department of Cell Biology**: JoKaye Highstrete, Administrator. (713) 798-5197.
- **Program in Cell and Molecular Biology**: Debbie Martin, Administrator. (713) 798-6557
- **Program in Developmental Biology**: Debbie Martin, Administrator. (713) 798-5197.
- **Dept. of Microbiology and Immunology**: Dr. Dorothy Lewis, Director of Graduate Studies. (713) 798-6427
- **Institute for Molecular Genetics**: Dr. Craig Chinault, Director of Graduate Studies. (713) 798-5056.
- **Dept. of Molec. Physiology and Biophysics**: Dr. William Schilling, Director of Graduate Studies. (713) 798-4700.
- **Division of Molecular Virology**: Dr. R. F. Ramig, Director of Graduate Studies. (713) 798-4830.
- **Division of Neuroscience**: Dr. Dan Johnston, Director of Graduate Studies. 1-800-367-9149.
- **Department of Pharmacology**: Dr. Ram Reddy, Director of Graduate Studies. (713) 798-7906.
- **M.D./Ph.D. Program**: Drita Almeida, Administrator. (713) 798-6613.
- **Audiology/Acoustics**: Dr. James Jerger, Director of Graduate Studies. (713) 798-5916.

To receive an application package call or write to:

The Graduate School Office of Admissions
Baylor College of Medicine
Houston, TX 77030 U.S.A.
tel.: (713) 798-4060 (or 4028)
FAX: (713) 798-6325

(For information on how to apply to these programs electronically, contact schrader@bcm.tmc.edu.)

Baylor College of Medicine is a private, nonsectarian research institution and an equal opportunity employer. The Graduate School welcomes applications from minority and foreign applicants.
ASSISTANT PROFESSORS, Biological Sciences, University of South Alabama. Two tenure-track positions beginning Fall, 1993 in Biological Sciences, required, postdoctoral experience desirable. Candidates should have a commitment to teaching and show evidence of participation in extramurally funded research. Main teaching responsibilities include Plant Development and Plant Biology. Applications at least to: Dr. John A. Freeman, Chair, Department of Biological Sciences, University of South Alabama, Mobile, AL 36688 (Telephone: 205-460-6521). Deadline for receipt of applications is February 20, 1993. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—BIOLOGY TEMPLE UNIVERSITY
The Biology Department at Temple University is seeking a faculty member at the assistant professor level. The appointee would be expected to develop an active research program and to participate in graduate and undergraduate teaching. The candidate should have research interests in using molecular or biochemical approaches for the study of neural development and/or physiology. The department is broadly based, with 26 faculty and an established graduate program leading to the M.A. and Ph.D. degrees. For further information call (215) 204-7372 or write to Dr. H. Raymond Smith, Temple University, Philadelphia, PA 19122. Application Deadline: February 1, 1993. An Equal Opportunity/Affirmative Action Employer.

EVOLUTIONARY BIOLOGY. The Department of Biology, Vanderbilt University, invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR. Candidates are expected to develop a strong, externally funded research program using modern techniques to address questions concerning the evolution of the biology of plants or animals. Areas of interest include, but are not limited to: plant/insect or parasite/host coevolution, systematic biology, and experimental evolution. Those using molecular approaches to answer questions in these areas are especially encouraged to apply. Teaching responsibilities will complement the needs of the department and will include a course in the candidate's area of specialization. This position is pending final administrative approval. Applicants should submit curriculum vitae, including a description of research interests, and arrange to have three letters of recommendation sent by February 1, 1993 to: Dr. David E. McCauley, Evolutionary Biology Search Committee, Department of Biology, Box 18128, Vanderbilt University, Nashville, TN 37235. Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

The Department of Psychology invites applications for a tenure-track ASSISTANT PROFESSOR position beginning July 1, 1993, in biological psychology with research interests in animal learning, memory, and cognition; evolution and development of learning; learning in natural settings or neural substrates of cognition in the environment. Exceptional candidates who work in other aspects of animal behavior will also be considered. Interested applicants should send by January 8, 1993, complete curriculum vitae, selected reprints and three letters of reference to: Biological Psychology Search Committee, Department of Psychology, University of California, Los Angeles, CA 90095. Applications postmarked after the deadline will not be considered. The University of California is an Equal Opportunity/Affirmative Action Employer.

U N I V E R S I T Y O F P E N N S Y L V A N I A Biology and Pathology School of Medicine

The Department of Physiology seeks to fill a tenure-track position at the ASSISTANT PROFESSOR level, in the area of Cellular Motility. Candidates combining biological and molecular approaches are especially encouraged to apply. Before March 15, 1993, please send a brief description of research interests, and two reprints or preprints. Also arrange to have three letters of reference sent to:

Mottley Search
Department of Physiology
University of Pennsylvania
Philadelphia, PA 19104-6065

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ASSISTANT PROFESSOR—BIOCHEMISTRY
The Chemistry Department of Denison University, Granville, Ohio is seeking applications for a tenure-track position starting in the fall, 1993. Ph.D. in Biochemistry or Ph.D. in Chemistry with a biochemistry emphasis required. Main teaching responsibilities include two semesters of biochemistry, with laboratory. Other teaching responsibilities in general, organic or analytical chemistry will depend on background and experience of the candidate. The successful candidate will have a strong commitment to teaching and research with undergraduates. Research areas of full-time faculty currently include bioinformatics, biocatalysis, and molecular recognition. Send curriculum vitae, a statement of research interests, and three letters of recommendation to: Dr. Joel B. Sheffield, Chair, Department of Biology, Temple University, Philadelphia, PA 19122. Application Deadline: February 1, 1993. An Equal Opportunity/Affirmative Action Employer.

ELECTRON MICROSCOPIST PLANT ANATOMIST

The Biology & Microbiology Department, University of Wisconsin—Oshkosh is seeking applicants for a tenure-track ASSISTANT PROFESSOR to begin September 1993. Teaching responsibilities will be Electron Microscopy, introductory biology and plant anatomy. Applicant will maintain electron microscopy equipment, including TEM and SEM, and assist faculty and students with research. Candidate is expected to develop a research program in plant biology, pursue extramural funding and supervise master's theses. Postdoctoral and teaching experience desirable. Application deadline is February 19, 1993. Send application letter, resume, 3 current letters of recommendation and transcripts to: M. A. Rouf, Chair, Department of Biology & Microbiology, UW/Oshkosh, WI 54901. The University of Wisconsin—Oshkosh is an Affirmative Action/Equal Opportunity Employer.

PHYSIOLOGIST: Tenure-track ASSISTANT PROFESSOR to teach undergraduate and graduate human physiology and undergraduate anatomy. Expertise in neuromotor control and cellular, neurobiological, and/or physical therapy students desired. Email curriculum vitae, names and three references to: Dr. Brian Curry, School of Health Sciences, Grand Valley State University, Allendale, MI 49401-9403. Equal Opportunity/Affirmative Action/ADA Employer.

E. K. Harrison:
MIAMI UNIVERSITY HAMILTON CAMPUS
Tenure-track ASSISTANT PROFESSORSHIP in Zoology is available August 1993. Ph.D. in zoology required. Teach courses in the first two years of baccalaureate program and human anatomy and physiology. Advise undergraduate students in preparation of teaching, professional service, and scholarship, with primary emphasis on teaching. Miami University is a state-assisted, public university on the Hamilton Campus, 16 miles from the main campus, is a commuter regional campus with 2,200 students. Qualified persons should submit curriculum vitae, descriptions of teaching and scholarship interests, and should arrange for three letters of recommendation and transcripts of all academic work to be sent to: Dr. E. K. Harrison, Chair of Zoology, Miami University, Oshkosh, OH 45056. Application review will begin January 22, 1993 and continue until position is filled. Miami University offers Equal Opportunity in employment and education.

1974 SCIENCE • VOL. 258 • 18 DECEMBER 1992
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The Department of Clinical Neurosciences (Psychiatry, Neuropharmacology) has the following challenging opportunities in the clinical development of novel drugs for the treatment of diseases of the central nervous system:

**Senior Clinical Research Scientist III**

(Pos. #63717-19, #64411-19, #64412-19)

Position will be filled at the Senior Clinical Research Scientist I or Senior Clinical Research Scientist II level. The level of responsibility to be assigned will depend on the individual applicant's educational background and experience level.

**Senior Clinical Research Scientist I:** Candidates must have a Master's degree in a biological, physical, health or other related science (or Doctor of Pharmacy degree) PLUS 8 years of clinical/research experience (e.g. employment in a patient care setting, such as nursing or pharmacy; clinical laboratory experience; experience as a clinical research monitor/coordinator) OR a Ph.D. in a biological, physical, health or other related science PLUS 5 years of clinical/research experience (as described above).

**Senior Clinical Research Scientist II:** Candidates must have a Master's degree in a biological, physical, health or other related science (or Doctor of Pharmacy degree) PLUS 10 years of clinical/research experience (e.g. employment in a patient care setting, such as nursing or pharmacy; clinical laboratory experience; experience as a clinical research monitor/coordinator) OR a Ph.D. in a biological, physical, health or other related science PLUS 7 years of clinical/research experience (as described above).

Other factors to be considered in selection for either position include experience with clinical research methodology/activities (e.g. study design, site monitoring) and computer experience.

We also have the following opportunities in the Department of Clinical Neurosciences as well as the Department of Infectious Diseases and Immunology which offers drug development challenges focusing on major viral diseases:

**Clinical Research Scientist III**

(Clinical Neurosciences: POS. #63403-19, #64408-19, #64409-19)
(Infectious Diseases & Immunology: POS. #63389-19, #64075-19, #64403-19)

Positions will be filled at the Clinical Research Scientist I or Clinical Research Scientist II level. The level of responsibility to be assigned will depend upon the individual applicant's educational background and experience level.

**Clinical Research Scientist I:** Must have a Master's degree in a biological, physical, health or other related science or Doctor of Pharmacy degree with a minimum of 4 years of clinical/research experience (e.g. employment in a patient care setting, such as nursing or pharmacy; clinical laboratory experience; experience as a clinical research monitor/coordinator) OR a Ph.D. in one of the disciplines described above, with a minimum of 1 year of clinical/research experience. Scientific writing assessment.

**Clinical Research Scientist II:** Must have a Master's degree or Doctor of Pharmacy degree with 6 years of clinical/research experience as described above OR a Ph.D. with 3 years of clinical/research experience. Scientific writing assessment.

Other factors to be considered for both positions include experience with clinical research methodology/activities (e.g. study design, site monitoring) and computer experience. Will require frequent travel.

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POSITIONS OPEN
UNIVERSITY OF PENNSYLVANIA
School of Medicine

Applications are encouraged from persons applying molecular biological and biophysical techniques to the study of Ion Channels for a tenure-track position in Physiology. Preference will be shown to applicants at the level of ASSISTANT PROFESSOR. Please send us (before Fall 2003) curriculum vitae and a statement of research interests, and two reprints or preprints of relevant papers. Also arrange to have three letters of reference sent to:

Ion Channel Search
Department of Physiology
University of Pennsylvania
Philadelphia, PA 19104-6085

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

Beaver College, Glenside, PA 19038—Tenure-track, ASSISTANT PROFESSOR positions, Fall 1993. Complete applications including letters of reference due by 2/10. Bachelor’s degree required; Ph.D. or M.D. preferred. Applicants must have demonstrated excellence in teaching and research. Please send curriculum vitae and names of persons who might be contacted to: Dr. Douglas P. Kline, Director, Faculty Search, Beaver College, Glenside, PA 19038. Beaver College, an Affirmative Action/EQUAL OPPORTUNITY employer, is an equal opportunity educator and employer.

ASSISTANT PROFESSOR positions, Ion Channel Search, Department of Physiology, University of Pennsylvania, are available on a tenure-track basis at the assistant professor level. Applicants should have a Ph.D. or equivalent degree. Preference will be given to candidates with significant experience in either ion channel research or related areas. Responsibilities include teaching and research. Applicants should provide a curriculum vitae, statement of research interests and goals, and three letters of reference. Submit applications by December 15, 1993. University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

St. Lawrence University's Department of Biology has an opening for a visiting Assistant Professor with training in animal physiology. Teaching responsibilities include courses in General Animal Physiology and Vertebrate Physiology and two other courses commensurate with the candidate's training. A strong commitment to teaching in a liberal arts environment is essential. Ph.D. preferred. Send curriculum vitae, a statement of teaching interests and three letters of recommendation to: Dr. Thea D. Lindley, Biology Department Chair, St. Lawrence University, Canton, NY 13617. Completed applications will be considered beginning January 15, 1993. St. Lawrence University is committed to fostering multicultural diversity in its faculty, staff, student body and programs of instruction. As an Equal Opportunity/Affirmative Action Employer, we specifically encourage applications from women, persons of color, and the disabled.

ASSISTANT PROFESSOR, Center for Pharmaceutical Biotechnology, invites applications for assistant professor or associate professor in a pharmaceutical biotechnology product formulation with application to pharmaceutical design or development, available September 1993. Ph.D. and postdoctoral experience preferred. Candidate develops, directs and conducts research and teaching in graduate and professional programs, and the Center for Pharmaceutical Biotechnology. Send curriculum vitae, names of three references and a statement of teaching and research goals to: Dr. Michael J. Donahue, Director, Center for Pharmaceutical Biotechnology, University of Illinois at Chicago, 801 S. Paulina St., Chicago, IL 60680. University of Illinois is an Affirmative Action/Equal Opportunity Employer.

DEVELOPMENTAL BIOLOGIST. The Department of Developmental Biology invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR, with an emphasis on the regulation of cell and tissue specification. Applicants must have a strong background in molecular biology and show a commitment to training and teaching at both the undergraduate and graduate levels. A Ph.D. is required. Applicants must have a strong research program that involves the use of molecular genetic techniques. The successful candidate will be expected to develop an independent research program and to establish a broad-based research program in Developmental Biology. The candidate's research program will be integrated into the existing strengths of the Department. Applications should include a current curriculum vitae, statement of research and teaching interests, a description of how the candidate intends to contribute to the department's strengths, and three letters of reference. Applications and nominations are welcomed and should be sent to: Dr. Peter Bejsovec, Department of Developmental Biology, 150 North Ellis Avenue, Chicago, IL 60611. The University of Chicago has a policy of equal opportunity for all people, regardless of race, color, religion, national origin, age, sex, or handicap.

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

ASSISTANT/ASSOCIATE PROFESSOR, BIOCHEMISTRY/MOLECULAR BIOLOGY, MOREHOUSE SCHOOL OF MEDICINE

The Morehouse School of Medicine invites applications for a full-time, tenure-track position in the area of Molecular and Structural Biology. This position is at the assistant or associate professor level. Applicants must have a Ph.D. or equivalent degree in molecular or structural biology. The successful candidate will be expected to conduct research in his/her area of interest, teach courses in the School's Biomedical Sciences program, and participate in service activities. The School also invites applications for a full-time, tenure-track position in the area of Chemistry. The successful candidate will be expected to conduct research in his/her area of interest, teach courses in the School's Biomedical Sciences program, and participate in service activities. The School is committed to diversity and encourages applications from women and minority candidates. Applications should include a current curriculum vitae, a statement of research and teaching goals, and letters of reference. Applications and nominations are welcomed and should be sent to: Professor Russell J. Jobs, Chair, Molecular and Structural Biology Search Committee, Morehouse School of Medicine, 168非常高 Avenue, Atlanta, GA 30310-0001. The Morehouse School of Medicine is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR, BIOLOGY DEPARTMENT

St. Lawrence University Department of Biology has an opening for an assistant professor. Teaching responsibilities include courses in General Animal Physiology and Vertebrate Physiology and two other courses commensurate with the candidate's training. Strong commitment to teaching in a liberal arts environment is essential. Ph.D. preferred. Send curriculum vitae, statement of teaching interests and three letters of recommendation to: Dr. Thea D. Lindley, Biology Department Chair, St. Lawrence University, Canton, NY 13617. Completed applications will be considered beginning January 15, 1993. St. Lawrence University is committed to fostering multicultural diversity in its faculty, staff, student body and programs of instruction. As an Equal Opportunity/Affirmative Action Employer, we specifically encourage applications from women, persons of color, and the disabled.

ASSISTANT PROFESSOR, Center for Pharmaceutical Biotechnology, invites applications for assistant professor or associate professor in pharmaceutical biotechnology product formulation with application to pharmaceutical design or development, available September 1993. Ph.D. and postdoctoral experience preferred. Candidate develops, directs and conducts research and teaching in graduate and professional programs, and the Center for Pharmaceutical Biotechnology. Send curriculum vitae, names of three references and a statement of teaching and research goals to: Dr. Michael J. Donahue, Director, Center for Pharmaceutical Biotechnology, University of Illinois at Chicago, 801 S. Paulina St., Chicago, IL 60680. University of Illinois is an Affirmative Action/Equal Opportunity Employer.

BIOLOGY: ONE FACULTY POSITION.

Due to departmental growth, applications are invited for one assistant professor position, beginning August 1993 (Ph.D. required). A zoologist with the ability to teach comparative anatomy, as well as general biology, is sought. In addition to teaching duties, the candidate is expected to conduct independent research. The University of Illinois at Chicago is a metropolitan university with a diverse undergraduate population. The successful candidate is expected to offer a competitive salary and laboratory space, and teach primarily undergraduate courses. Applications should include a current curriculum vitae, a statement of teaching and research goals, a representative list of publications, and three letters of reference. Send all material to: Dr. James W. Callow, Chair, Department of Biology, University of Illinois at Chicago, 801 S. Paulina St., Chicago, IL 60680. University of Illinois is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR, BIOCHEMISTRY/MOLECULAR BIOLOGY, MOREHOUSE SCHOOL OF MEDICINE

The Morehouse School of Medicine invites applications for a full-time, tenure-track position in the area of Molecular and Structural Biology. This position is at the assistant or associate professor level. Applicants must have a Ph.D. or equivalent degree in molecular or structural biology. The successful candidate will be expected to conduct research in his/her area of interest, teach courses in the School's Biomedical Sciences program, and participate in service activities. The School also invites applications for a full-time, tenure-track position in the area of Chemistry. The successful candidate will be expected to conduct research in his/her area of interest, teach courses in the School's Biomedical Sciences program, and participate in service activities. The School is committed to diversity and encourages applications from women and minority candidates. Applications should include a current curriculum vitae, a statement of research and teaching goals, and letters of reference. Applications and nominations are welcomed and should be sent to: Professor Russell J. Jobs, Chair, Molecular and Structural Biology Search Committee, Morehouse School of Medicine, 168非常高 Avenue, Atlanta, GA 30310-0001. The Morehouse School of Medicine is an Equal Opportunity/Affirmative Action Employer.

HYPERTENSION & VASCULAR RESEARCH

A full-time, tenure-track faculty position at the level of ASSISTANT, ASSOCIATE, or FULL PROFESSOR is open in the Section of Hypertension and Vascular Research in the Division of General Internal Medicine at the University of Texas Medical Branch (UTMB) on Galveston Island. Candidates must have an M.D. and/or Ph.D. degree, demonstrated capability to gain independent funding, and be eager to join a growing research group with collaborative initiatives at both the basic and clinical levels. Research in one of the following areas would be valuable: Vascular or endothelial cell biology as it relates to hypertension or atherogenesis, transgenic, molecular mechanisms of hormone action, and gene therapy. Please send curriculum vitae and names of three references to: Richard Bukowski, Ph.D., Head of Search Committee, Hypertension and Vascular Research J-63, Galveston Hospital Center, 301 University Boulevard, Galveston, Texas 77555-5146. Equal Opportunity/Affirmative Action Employer. UTMB is smoke-free/drug-free workplace. UTMB hires only individuals authorized to work in the U.S.

GROSS ANATOMIST

Department of Surgery, University of California, San Diego (UCSD); Tenure-track ASSISTANT PROFESSOR position to teach gross anatomy at the UCSD School of Medicine beginning July 1, 1993. This is a jointly held teaching and research position, among other responsibilities. It requires interest and ability to teach in the Medical School Core Gross Anatomy course and to participate actively in the gross anatomy teaching. The candidate must have a Ph.D. in anatomy and research competence of a degree to allow independent postdoctoral study and undertaking of research with others. Send curriculum vitae and names of three academic references to: N.A. Halas, UCSD Medical Center, Box 2583, 2 West Arbor Drive, San Diego, CA 92103-8401. Salary per level, 258-345. Equal Opportunity/Affirmative Action Employer. Closing date February 28, 1993.

MOLECULAR BIOLOGIST

The Department of Biology at the University of Missouri-St. Louis is seeking a Molecular Biologist. The position, to start August 1993, is tenure-track at the ASSISTANT or ASSOCIATE PROFESSOR level. Applicants at the assistant professor level should have a minimum of two years of postdoctoral experience. The successful candidate will be expected to develop a strong research program, direct graduate student research, and contribute to the development of the Biotechnology Program. We seek scientists of exceptional quality irrespective of their specific research interests; however, we especially encourage applications from candidates whose interests might interface with or complement existing research programs in molecular biology, biochemistry, biotechnology, or plant molecular genetics. Applicants with industrial research experience will also be considered. Teaching responsibilities include a biotechnology lecture/lab course and a graduate level research seminar. The applicant's area of expertise will be considered. This position will offer competitive salary and laboratory setup funds. Send curriculum vitae, statement of research interests, and names of three letters of reference by 30 January 1993 to: Dr. Teresa Thiel, Chair, Molecular Biology Search Committee, Department of Biology, University of Missouri-St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121-4499. The University of Missouri is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.

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**RESEARCH SCIENTIST**

**DNA SEQUENCING**

The DNA Sequencing Laboratory currently has a position available for a Scientist with a Ph.D. in Molecular Biology or Biochemistry plus two years postdoctoral experience. Special consideration will be given to molecular biologists with experience in cDNA cloning, subtractive hybridizations, normalization of cDNA libraries, DNA sequencing and computer analysis of DNA sequences. Job Code #S-507

**RESEARCH ASSOCIATE**

**PHARMACEUTICS & DRUG DELIVERY**

This position will involve in vitro as well as in vivo studies of uptake, processing and delivery using novel drug carriers such as liposomes and polymers. Must have a BS degree or equivalent in Biochemistry or Cell Biology, have an interest in drug delivery and like working in a team-oriented environment. Job Code #S-508

If you have the necessary qualifications and would like to be part of an organization that places its highest value on the contributions of its people, send your CV indicating Job Code # to:

Amgen Inc., Staffing Department

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**Deutsches Krebsforschungszentrum**

Stiftung des öffentlichen Rechts

The Division of Applied Tumor Virology invites applications for the position of a

**Postdoctoral Research Associate**

to work on a project on the localisation and analysis of evolutionary conserved and transcribed sequences as an essential part in the identification of genes responsible for human mutations. Applicants are invited for a postdoctoral position in the laboratory of Dr. Annemarie Poultzka to participate in the development of techniques to allow the identification of transcribed and conserved sequences, and to apply these in the identification of genes for human disorders.

The position is available immediately and is tentatively restricted until December 31, 1993.

Applications should be addressed to:

Deutsches Krebsforschungszentrum,

IFN 280,

6900 Heidelberg,

Tel: 0049-6221-42 3409

Fax: 0049-6221-470 333

(W0300)A

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**Miles Inc., Pharmaceutical Division**

**SR. RESEARCH SCIENTIST**

This position requires an Immunologist with a PhD and at least two years of postdoctoral training in either Immunology or Cell Biology. Applicants should be expert in ELISA and RIA methodology and have experience in assaying proteins and synthetic molecules. Applicants should be capable of supervising two technicians and working effectively within a multidisciplinary team of scientists. Individuals with a strong research interest in either cytokine biology or inflammation and who are capable of establishing a research program in one of these areas are particularly encouraged to apply.

We offer attractive compensation and generous health, medical and relocation benefits. Resumes, including salary history and objectives, should be forwarded in confidence to: Miles Inc., Pharmaceutical Division, Dept. AAPS, 400 Morgan Lane, West Haven, CT 06516.

An Equal Opportunity Employer M/F/D/V
IMMUNOPATHOLOGIST/CLINICAL IMMUNOLOGIST—The Department of Pathology at The Ohio State University seeks an individual, at the ASSISTANT or ASSOCIATE PROFESSOR level, with special training and certification (or eligibility) in clinical immunopathology. The individual will serve as the Pathologist in charge of the CLINICAL IMMUNOLOGIST laboratory and will be expected to pursue a funded research program in immunology, preferably with relevance to transplantation pathology. The position involves participating in the medical education at the undergraduate, graduate, and resident levels. Interested individuals with an M.D., M.D./Ph.D., or Ph.D. degree should submit curriculum vitae, a list of representative publications, three letters of recommendation, and a brief description (not to exceed one page) of potential research project(s) by February 28, 1993: to Daniel D. Sedmak, M.D., Department of Pathology, The Ohio State University, 135 Mote Hall, 1645 Neil Avenue, Columbus, OH 43210-1235.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

PALEOBOTANIST
Department of Integrative Biology
University of California at Berkeley

Applications are invited for a tenure-track position as ASSISTANT PROFESSOR in the Department of Integrative Biology and ASSOCIATE CURATOR in the Museum of Paleobotany, starting July 1, 1993. Candidates should have an outstanding program of theoretical and empirical research in a major field of paleobotany that complements strong interests in the graduate and undergraduate teaching. The appointee will join an interdepartmental group of paleobotanists, botanists, and anatomists comprising the Berkeley Natural History Museums and the Department of Integrative Biology in the new Valley Life Sciences Building. Applications, including curriculum vitae, a list of publications, and three or more outstanding letters of recommendation, should be submitted by March 15, 1993, to: Chair, Search Committee, Department of Integrative Biology, University of California, Berkeley, CA 94720.

The closing date for receipt of applications is January 29, 1993.

The University of California is an Equal Opportunity/Affirmative Action Employer. Women and individuals from ethnic minorities traditionally underrepresented in the biological sciences are especially encouraged to apply.

CELL BIOLOGIST/MOLECULAR BIOLOGIST

The Institute of Chemical Toxicology (ICT), Wayne State University, is seeking to fill a tenure-track faculty position at the ASSOCIATE or FULL PROFESSOR level in the area of cell biology and/or eukaryotic molecular biology. Preference will be given to applicants interested in factors affecting cellular function, phenotypic characteristics, differentiation, regulation of gene expression, and also to those with experience in oncogenes, transcription factors, growth factors, retinoids, and in the molecular/cellular effects of toxic substances and carcinogens (e.g., DNA repair). The ICT has 8 faculty actively engaged in research on regulation of gene expression, oncogene and tumor suppressor gene function, immunomodulation, immortalization and differentiated epithelial cell function, kinase-mediated signal transduction, cellular toxicity of metals and transgenic animals. The ICT has established a transgenic animal facility. The Institute of Chemical Toxicology offers a research-intensive environment and faculty are expected to develop independent, extramurally funded research programs. Excellent new laboratories, equipment, support facilities, and generous start-up funds are available. Candidates should have a Ph.D., M.D., or D.V.M. degree and have a strong track record in research. Send curriculum vitae and a brief description of research interests to:

Dr. Raymond F. Novak
Institute of Chemical Toxicology
Wayne State University
2727 Beaubien, Suite 4000
Detroit, MI 48201

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

THE UNIVERSITY OF MICHIGAN
SCHOOL OF DENTISTRY
POSITION IN TISSUE ENGINEERING

The University of Michigan School of Dentistry invites applications for a full-time tenure-track faculty position at the ASSOCIATE or FULL PROFESSOR level in the Department of Oral Medicine, Pathology, & Surgery. We are seeking an individual who has potential and/or demonstrated experience in the development of a new program in the reconstitution of soft tissues in vivo for use as model systems in basic and applied research, or for use as a temporary repair of a specific defect(s) of the oral cavity. Candidates must have a Ph.D. and/or D.D.S./D.M.D. degree and appropriate postdoctoral or equivalent research experience. Rank will be commensurate with training and experience. The successful candidate will be expected to develop and maintain an extramurally funded research program of high quality and to participate in the professional and graduate teaching, and/or service programs of the department. The University of Michigan is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are encouraged to apply. Application submittal will be reviewed as they are received until the position is filled.

Professor/Senior Associate Professor
PATHOBIOLOGY

The Department of Comparative and Experimental Pathology has a tenure-track position open for an experimental pathologist to join the rank of Associate Professor beginning July 1, 1993. Applicants should have a Ph.D. degree or D.V.M./Ph.D. degrees and a record of accomplishments in research that is compatible with research programs focused on molecular pathogenetic mechanisms in infectious disease, inflammation, or immunology will be given preference. Excellent departmental research resources are available including a well-equipped, extramurally funded laboratory space, technical support, research equipment, and adjoining research facilities and collaborative investigators in the Health Science Center departments of Zoology and the Institute of Food and Agricultural Sciences. The successful candidate will be expected to establish a productive research program and to participate with other faculty in extramurally funded research programs in experimental pathology and infectious diseases. Applicants should submit a letter of intent, curriculum vitae, research statement, and names and addresses of three references by January 31, 1993, to: Dr. William L. Castlemann, Chairman, Department of Comparative and Experimental Pathology, University of California, Berkeley, CA 94720. The University of California is an Equal Opportunity/Affirmative Action Employer.

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

SCIENCE EDUCATION

The University of Iowa College of Dental Medicine/Biology/Critical Care seeks a qualified investigator to fill a new position at either the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. This position will have tenure and will be expected to develop and maintain an outstanding research program in biochemistry and cell biology of airways inflammation and acute lung injury. In return for a significant commitment, the candidate will be expected to pursue extramural funding through the support of research program and interact with other investigators in the institution. Investigators with expertise in the molecular biology of inflammation and regulation of gene expression, or molecular immunology are especially encouraged to apply, although a strong scientist in any complementary area will be considered. Opportunities for medical and graduate student teaching and patient care are available according to the candidate's training and desires. Applicants should send curriculum vitae and letter of interest to: Dr. J. B. Miller, Chair, Department of Pathobiology, University of Iowa College of Medicine, 200 University Avenue, Iowa City, IA 52242. A-setting program will be available to the University of Iowa is an Equal Opportunity/Affirmative Action Employer.

IMMUNOLOGIST

The Division of Basic Immunology at the National Jewish Center for Immunology and Respiratory Medicine is recruiting an experimental immunologist at the ASSISTANT or ASSOCIATE PROFESSOR level. We are seeking an outstanding investigator to join our faculty of eight full-time basic researchers. Experience in the areas of genetics and immunology is required. Applicants should have a Ph.D., M.D., or D.V.M. degree and have a strong track record in research. Send curriculum vitae and a brief description of research interests to:

Dr. Raymond F. Novak
Institute of Chemical Toxicology
Wayne State University
2727 Beaubien, Suite 4000
Detroit, MI 48201

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

DIRECTOR

Transplantation Research Laboratory

Seeking a Ph.D. in biochemistry, immunology, or molecular biology with interest and experience in transplantation research. Candidates should have a strong track record in research within an extremely active liver transplant program. Newly developed facilities, with support from established liver research unit. Need an innovative self-starter to take charge.

Interested candidates should send their resumes: to

Charles Miller, M.D.
Division of Basic Immunology
Mount Sinai Medical Center
110440
One Gustave Levy Place
New York, NY 10029
Neurochemist

The Department of Receptor Neurochemistry, CNS Discovery, is seeking a highly motivated Neurochemist to join a team of scientists engaged in basic research and drug discovery programs, directed towards the identification of novel therapeutic approaches to CNS disorders such as Epilepsy, Ischemia and Schizophrenia. The CNS Discovery unit at Novo Nordisk is world renowned for its innovative research programs in the areas of Glutamnergic, GABAergic and Dopaminergic receptors.

The successful candidate should have experience with neurochemical techniques related to signal transduction pathways and/or neurotransmitter release. Preference will be given to applicants with experience in using tissue slice preparations and/or clonal cell lines. Both the ability to work independently and the willingness to work within a collaborative team oriented environment are essential. Candidates should have a Ph.D. or equivalent in neurochemistry or neuroscience, and relevant postdoctoral experience. For further information please contact Dr. Peter Suzdak on telephone +45 4466 8888 ext. 4760.

If you are motivated to take on these challenging opportunities, please forward your written application marked “Neurochemist 1260” to HCG-Personnel, Building 9QS, Krogshejvej 31, DK-2880 Bagsvaerd.

Novo Nordisk is one of the world’s leading biotechnology companies. It is a major force in insulin manufacture and diabetes treatment and is the world’s largest producer of industrial enzymes. The company also manufactures and markets a variety of other pharmaceuticals and bioindustrial products. Headquartered in Denmark, Novo Nordisk employs more than 10,000 people in 43 countries.

NMR Structural Biologists

Tenure track appointments at the Assistant Member level are available in the Cellular Biochemistry & Biophysics Program in the application of multi-dimensional NMR spectroscopy to the analysis of macromolecular structure, dynamics and interactions in solution.

Candidates should have an outstanding record of research achievements and the ability to develop an independent research program. Experience in the application of multi-dimensional NMR methods to the analysis of macromolecular structure is required. The NMR core facility due for completion in the second quarter of 1993 will house five three channel Varian high resolution NMR spectrometers, including three 600 MHz instruments. The computational resources will include Silicon Graphics and SUN work stations and servers. The institution has allocated equipment and operating budgets to maintain the NMR and computing facilities at state-of-the-art level. Attractive start-up packages are available.

Interested applicants should forward their curriculum vitae, bibliography and the names of three references to:

Dr. Dinshaw J. Patel
Program in Cellular Biochemistry & Biophysics
Memorial Sloan-Kettering Cancer Center
Box 557
1275 York Avenue
New York, NY 10021

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Research Associates

Amgen is an innovative leader in the discovery, development and marketing of human therapeutics. Our research in biotechnology has resulted in such breakthrough products as EPON® (recombinant human erythropoietin) and NEUP® (recombinant human granulocyte colony stimulating factor). The aim of the Developmental Biology department at Amgen is to identify, isolate, and characterize genes involved in cell growth and differentiation. Our studies involve a number of in vitro and in vivo systems, including cell culture, transgenic technology, ES cell, and homologous recombination.

Qualified applicants should possess a BS/MS degree in a basic science discipline and laboratory experience in some of the following areas: molecular biology techniques (PCR, Northern and Southern analysis, gene cloning), cell culture, generation of transgenic mice, histology, protein chemistry, and histochemistry.

Amgen offers a very competitive salary and benefits package in addition to a stimulating, team oriented work environment. If you have the necessary qualifications and would like to be a part of an organization that places the highest value on the contribution of its people, send your resume to: Amgen Inc., Staffing Department (Mail Code 10-1-A-411), Job Code 55-99, Amgen Center, Thousand Oaks, CA 91320-1789. Amgen is an equal opportunity employer.

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Principals only, please.
Imagine The Possibilities

At Berlex, we’ve been building an impressive team with some of the finest talent in the pharmaceutical industry. To meet the challenges before us, we’re seeking several key members to help advance our scientific mission and arrive at new possibilities in Oncology and Cardiovascular research. If you’ve been looking for the chance to join forces with an internationally recognized pharmaceutical team, imagine building your career with Berlex at our new state of the art facility in Richmond, California.

SENIOR SCIENTIST
Joining a team involved in Oncology research, this senior scientist position requires a PhD with 7+ years’ industrial or academic experience and training in immunology, molecular, cell or tumor biology and outstanding scientific credentials. Specifically, you will be responsible for establishing research programs with an emphasis on cell growth control and differentiation, metastatic processes and signal transduction with the goal of developing novel therapeutics and elucidating mechanisms of action.
Dept. 010A.

SCIENTIST
As part of our Product Development group, you will develop stable formulations for protein-based drug substances that satisfy drug product criteria for human health care applications. Along with a PhD in (Bio)Chemistry or equivalent, you will need an in-depth understanding of protein chemistry, characterization, and purification, preferably with some experience in protein formulation, lyophilization processes, and/or drug delivery systems. Exposure to FDA and USDA regulatory agencies is a plus.
Dept. 010B.

As a U.S. subsidiary of an international Fortune 500 company, Berlex offers competitive salaries and benefits, which include relocation assistance to our San Francisco Bay Area location. To join our team, please send your resume today, to: BERLEX BIOSCIENCES, HUMAN RESOURCES, DEPT. (Indicate dept. of your interest), 15049 SAN PABLO AVENUE, RICHMOND, CA 94804-0999. We are an equal opportunity employer.

BERLEX
The Best Is Yet To Come

BIODIVERSITY SUPPORT PROGRAM
The Biodiversity Support Program, a USAID-funded consortium of the World Wildlife Fund, The Nature Conservancy, and World Resources Institute, promotes efforts to conserve biological diversity in developing countries.

ASIAN BIODIVERSITY CONSERVATION NETWORK
The Asian Biodiversity Conservation Network (ABCN), a new BSP program under the US-Asia Environmental Partnership, will administer a competitive grants program for collaborative research, conservation, and development projects. ABCN seeks to improve the capacities of local communities, nongovernmental organizations, governmental agencies, scientific research organizations, and private enterprises to conserve biodiversity for subsistence production and commerce in Asia and the Pacific. BSP seeks to fill several ABCN positions:
DIRECTOR (Dept. 261M) provides the vision, direction, leadership, and management for the ABCN Program. The Director will hire and manage an interdisciplinary staff in Washington office and Asian office. Qualified applicants will possess a PhD and 8 years experience in biological conservation, natural resource management, international development, or private enterprise management.
SENIOR PROGRAM OFFICER (Dept. 262M) assists with the planning, development, and implementation of the ABCN grants program, and provides technical assistance to grantees for the design, implementation and monitoring of their projects. Qualified applicants will possess a Masters or Ph.D. and at least 3 years experience in fields listed in Director’s qualifications above.
PROGRAM ADMINISTRATOR (Dept. 260M) establishes and maintains the ABCN Program’s financial monitoring and accounting systems. Qualified applicants will have a B.A. and 5 years experience in accounting, finance, or business administration or Masters and 1 year experience.

ASIA & PACIFIC PROGRAM
BSP’s existing Asia & Pacific Program manages a variety of AID-funded projects related to biodiversity conservation. One Position open:
PROGRAM OFFICER (Dept. 248A) Assists Program Manager to plan and manage Asia and Pacific activities to develop worldwide conservation monitoring and evaluation program. Qualified applicants should have Masters or Ph.D. in biological or social sciences and conservation experience, preferably in SE Asia. Project administration experience preferred. For all positions, experience with AID preferred, but not required. Send cover letter and resume to: WWF, Human Resources, (refer to appropriate Dept. #) By mail: 1250 24th Street, NW, Washington, D.C. 20037. FAX: 202/293-9211. Affirmative Action/Equal Opportunity Employer.

CHAIR OF MEDICINE
UNIVERSITY OF VERMONT
COLLEGE OF MEDICINE

The University of Vermont College of Medicine is soliciting applications for the position of Chair of the Department of Medicine. The Chair also serves as Chief of the Medical Service at the Medical Center Hospital of Vermont and President of the full-time faculty practice group. The Department of Medicine has 73 full-time and 70 part-time faculty, and 75 residents and fellows representing all of the subspecialties. The College of Medicine maintains a Clinical Research Center and a comprehensive Cancer Center which have significant liaison with the department. The department has major funded research programs in many disciplines, including the NIH-funded Sims Obesity/Nutrition Research Center. Other major teaching affiliates include the Champlain Valley Physicians Medical Center in Plattsburgh, New York and the Maine Medical Center in Portland. The College of Medicine is committed to excellence in teaching, research and patient care in both primary care and subspecialty internal medicine. Applicants must be board certified in internal medicine with significant prior academic, research and administrative experience. Applications will be accepted until the position is filled. The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and people from diverse racial, ethnic and cultural backgrounds are encouraged to apply. Applications and inquiries should be addressed to:

John E. Helzer, M.D.
Chair, Department of Medicine Search Committee
Chairman, Department of Psychiatry
University of Vermont College of Medicine
Burlington, Vermont 05405-0068
RESEARCH OPPORTUNITIES ABROAD FOR U.S. BIOMEDICAL SCIENTISTS

JOHN E. FOGARTY INTERNATIONAL CENTER
For Advanced Study in the Health Sciences
NATIONAL INSTITUTES OF HEALTH

Senior International Fellowships: 3 to 12 months for use in any foreign country. Applicants must be more than 5 years post doc with a permanent position in the U.S.

Foreign-supported Fellowships (Postdocs): 1 year in Finland, France, Germany, Ireland, Israel, Japan, Norway, Sweden, Switzerland, or Taiwan.

Hitchings-Elion Fellowships (Postdocs): 2 years in the United Kingdom or Ireland and 1 year in the U.S.

Fogarty International Research Collaboration Award (FIRCA): 1-3 years; small research grants for equipment, supplies and travel for collaboration between U.S. investigators and scientists in Central and Eastern Europe, former Soviet Union, or Latin America.

For info: International Research & Awards Branch
Fogarty International Center
National Institutes of Health
Bldg. 31, Rm. B2C39
Bethesda, MD 20892
Tel: (301)496-1653
Fax:(301)402-0779

DEPARTMENT OF BIOLOGICAL SCIENCES
ST. JOHN'S UNIVERSITY
NEW YORK

supportive atmosphere, and attractive work environment. Ph.D. & postdoctoral experience, research productivity commensurate with faculty rank, potential to establish an extramurally-funded research research program (Assistant Professor) or record of research funding (Associate Professor), and interest in teaching undergraduates as well Ph.D. and M.S. students are required. Teaching responsibilities include either undergraduate microbiology or developmental biology, and a graduate course in any appropriate area. Send c.v., statement of research interests and names of three references to:

Dr. Tim Carter, Chair,
Dept. of Biological Sciences
St. John's University
Jamaica, NY 11439

St. John's University is an equal opportunity employer - M/F.

Sr. Scientist/ Principal Scientist (Microbiology)

The R.W. Johnson Pharmaceutical Research Institute (RWJPRI) is a worldwide research and development organization within Johnson & Johnson. RWJPRI performs R&D activities for the Johnson & Johnson pharmaceutical companies ... Cilag, McNeil Pharmaceutical, Ortho Pharmaceutical and Ortho Biotech.

Due to expanding Drug Discovery activities, we have an immediate opportunity in our Microbiology Department for a candidate with a Ph.D. or equivalent in Microbiology, Biochemistry, Molecular Biology, or Cell Biology, and 3-8 years of postdoctoral/industrial experience. The successful candidate will join a multidisciplinary team of researchers seeking new human anti-infectives, in particular novel antibacterials. The position requires close collaboration with chemists to identify and develop agents in support of existing discovery efforts, as well as planning/developing/executing future discovery programs. Supervisory experience required. Experience in macromolecule purification, enzyme kinetics, molecular biology techniques, microbial physiology, and/or tissue culture considered an asset.

We offer a competitive salary and comprehensive benefits including medical/dental insurance, 401(k) plan, tuition reimbursement, and our LIVE FOR LIFE Wellness Program with on-site fitness center. Ours is a smoke-free workplace in a campus-like setting conveniently located midway between New York City and Philadelphia.

No phone calls please. Send resume including salary history to: Gerry Scott-Higgins, HR Dept. 24, R.W. Johnson Pharmaceutical Research Institute, P.O. Box 300, Raritan, NJ 08869-0602

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THE R.W. JOHNSON PHARMACEUTICAL RESEARCH INSTITUTE
a Johnson & Johnson company
POSITIONS OPEN

The Department of Molecular Genetics and Cell Biology and the Department of Medicine of the Division of Biologic Sciences at the University of California invite applications for tenured (PROFESSOR, ASSOCIATE PROFESSOR) or tenure-track (ASSISTANT PROFESSOR) positions in genetics. Successful applicants are expected to establish and maintain a research program in basic genetics and to contribute to graduate education. Applicants will be housed in the Marjorie B. Koffler School of Biological Sciences, a modern facility designed and dedicated to research in Virology. Generous start-up funding will be available to successful applicants. Inquiries are welcome. In a statement of research interests and the names of three references before January 31, 1993: To: The Virology Search Committee, 920 East 58th Street, Chicago, IL 60637. An Affirmative Action/Equal Opportunity Employer.

TERRESTRIAL ECOLOGIST

Tenure-track ASSISTANT or ASSOCIATE PROFESSOR position open Fall 1993 for an evolutionary ecologist studying animal interactions at the population or community level. Research should include a combination of observational, experimental, theoretical and modeling approaches. Primary teaching will be one course a semester alternating among undergraduate and graduate ecology courses. All candidates must have Ph.D. with proven record of good teaching and research abilities (demonstrated by publications). Postdoctoral experience preferred. Screening begins February 1, 1993, and will continue until position is filled. Send curriculum vitae, four letters of recommendation, representative reprints, summary of teaching experience, and research interests to: Dr. James N. Thompson, Jr., Chair, Department of Zoology, University of Oklahoma, Norman, OK 73019.

An Equal Opportunity/Affirmative Action Employer. OU has a POLICY OF BEING RESPONSIVE TO NEEDS OF DUAL-CAREER COUPLES.

ASSISTANT/ASSOCIATE PROFESSOR. Applications are invited for a tenure-track position in Animal Sciences to begin July 1, 1993. Candidates should have one or two years of postdoctoral experience and have an ongoing research program in virtually any area, but those complementing our programs in cellular biology, developmental biology, and neurobiology are of particular interest. Teaching responsibilities include participation in the graduate program and medical and dental gross anatomy courses. Applicants are requested to submit curriculum vitae, a statement of current and future research plans, and names of three references by January 15, 1993. Send applications to: Dr. Frank Mendoza, Search Committee, Department of Animal Sciences, School of Medicine, 317 Farber Hall, State University of New York, Buffalo, NY 14214. The State University of New York at Buffalo is an Equal Opportunity/Affirmative Action/Equal Opportunity Employer.

The School of Medicine of the Health Sciences Center of the University of Missouri announces a search for the CHAIR OF THE DEPARTMENT OF MOLECULAR MICROBIOLOGY & IMMUNOLOGY. Responsibilities include recruitment and retention of faculty, education of medical students, training of graduate students and fellows, and strengthening of research. The position is to be filled by July 1, 1993, and involves the appointment to hold an endowed chair. Candidates must have an individual of high energy and creativity who has a productive record of academic accomplishments in modern molecular biology. Applications are invited from minorities and females are particularly welcomed. Direct inquiries to: Herbert S. Goldberg, Ph.D., Associate Dean for Research & Academic Affairs, University of Missouri School of Medicine, Room 400, 601 M.D. Medical Science Building, Columbia, MO 65212.


POSITIONS OPEN

BIOMEDICAL SCIENCES DEPARTMENT OF PHYSIOLOGY

The University of California (UC) San Francisco seeks applications. Preference will be given to ASSISTANT, ASSOCIATE or ASSOCIATE PROFESSOR, in the Department of Physiology. We seek someone holding a Ph.D. and/or M.D. who will develop an active, independent research program that uses molecular, cellular, or integrative methods to investigate problems in mammalian biology. The candidate will be expected to take an active role in a new Biomedical Science Graduate Program and to participate in teaching mammalian physiology to medical students. Applicants should include curriculum vitae, and lists of research experience and research interests, reprints of up to three selected publications, and the names of three individuals who have been asked to submit reference letters. Women and minorities are encouraged to apply. Applications should be sent to: Chair, Search Committee, Department of Physiology, Box 0444, University of California, San Francisco, CA 94143-0444. UC San Francisco is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR, Arizona State Environmental Technol- ogy Training Center, Pima Community College, East Campus. Pima Community College invites applications for an experienced professional to begin September 1, 1993. The successful candidate will have a Ph.D. in the biological or physical sciences. Some experience in molecular systematics of vertebrates (birds preferred). Experience in the management of frozen tissue collections is also preferred. Duties include research, curation of the Laboratory of the DTU and teaching one zoology course per year, and graduate training. The fiscal-year appointment is expected to begin 1 July 1993. Interested applicants should submit a statement of research and curatorial interests, and names of at least three references to: Dr. D. A. Good, Museum of Natural Science, LSU, Baton Rouge, LA 70803. Review of applications will begin 15 February 1993 and will continue until suitable candidate is found. An Equal Opportunity/Affirmative Action Employer.

An Equal Opportunity/Affirmative Action Employer. OU has a POLICY OF BEING RESPONSIVE TO NEEDS OF DUAL-CAREER COUPLES.

DIRECTOR, Mayo Marrow Transplantation Program. Tulane University School of Medicine and Tulane University Health Sciences Center are seeking a tenured Professor/Professorship level to lead the research and clinical program in Bone Marrow Transplantation. Candidates are expected to be highly accomplished, distinguished investigators in the field of hematopoietic cell transplantation biology and be capable of developing and managing the research and clinical aspects of the program with the Section Chair of Hematopoietic Cell Biology/Oncology. Candidates must be Board Certified in either Pediatrics or Medicine and have at least three years of experience in a bone marrow transplant unit accredited by the National Marrow Donor Program. An attractive package of salary and development resources is available. Research space in a newly constructed facility will be ready for occupancy in late June of 1993. Interested applicants should send curriculum vitae and names of three references to: James J. Corrigan, Jr., M.D., Vice Dean, Tulane University Health Sciences Center, 1430 Tulane Avenue, New Orleans, LA 70112—2699. Applications will be accepted until position filled. Affirmative Action/Equal Opportunity Employer.

MOLECULAR SYSTEMATIST. Louisiana State University (LSU) Museum of Natural Science anticipates a tenure-track opening for a CURATOR OF GENETIC RESOURCES (Assistant or Associate Curator level). Applicants should have a Ph.D. in the biological sciences, specializing in DNA sequence analysis in molecular systematics of vertebrates (birds preferred). Experience in the management of frozen tissue collections is also preferred. Duties include research, curation of the LSU Collection of Vertebrates, teaching a zoology course per year, and graduate training. The fiscal-year appointment is expected to begin 1 July 1993. Interested applicants should submit a statement of research and curatorial interests, and names of at least three references to: Dr. D. A. Good, Museum of Natural Science, LSU, Baton Rouge, LA 70803. Review of applications will begin 15 February 1993 and will continue until suitable candidate is found. An Equal Opportunity/Affirmative Action Employer.

Columbia—Presbyterian Medical Center—New York City. RESEARCH DIRECTOR. The Department of Neurology is developing a new position for an M.D., M.D./Ph.D., or Ph.D. to direct our research program. We are developing a significant financial base for research, with the goal of establishing an endowed chair, to enable a qualified scientist to build an outstanding research program. We seek an established investigator with extensive research experience in anesthesiology or related fields, with research interests in molecular neurobiology, and who would be willing and able to direct and encourage younger investigators, while carrying out his/her own research. This individual should be skilled and accomplished in obtaining and writing grants and would have been awarded outside funding for research. Please submit curriculum vitae, current grant support, and a cover letter outlining research interests and career goals to: Edward D. Miller, Jr., M.D., E.M. Pappert Professor and Chairman, Department of Anesthesiology, Col- leges of Physicians and Surgeons, Columbia University, 630 West 166th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

YALE SCHOOL OF MEDICINE FACULTY POSITION

The Department of Therapeutic Radiology at the Yale University School of Medicine is seeking highly qualified candidates for a SEVERAL SECTIONS OF THE DEPARTMENT. Candidates should have research interests that complement existing research in the Section on DNA repair, recombination, mutagenesis, and the roles of oncoproteins and tumor suppressor genes in human cancer. A strong record of research accomplishment and supplementary research funding is required. Application at the level appropriate for the successful candidate, from Assistant Professor to Professor, Yale University is committed to increasing the diversity of its faculty. Applications are invited from candidates whose research interests and professional activities fall in the areas of: Genes and Cancer: to: Dr. D. T. Kufe, Department of Surgery, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.
GLAXO INSTITUTE FOR MOLECULAR BIOLOGY

Research at the Glaxo Institute in Geneva is directed towards the discovery of novel molecular mechanisms that can be used as drug targets to treat serious diseases. In particular, research is focused on the CNS, allergies and inflammatory conditions. We have an outstanding opportunity for a

YEAST MOLECULAR BIOLOGIST
to study ION-CHANNEL RECEPTORS

Applications are welcomed for a post-doctoral position to study mammalian ion-channel receptors using heterologous expression in yeast as the experimental system.

The successful applicant will work with molecular microbiologists, biochemists and electrophysiologists investigating receptors and signal transduction. A background with experience in the biochemistry or electrophysiology of ion-channels, in conjunction with yeast expression and mutagenesis, would be ideal. Informal enquiries should be directed to Dr. John Reid (JDR5341@gg.co.uk) or (+41 22 706 9602).

The Institute provides a dynamic international research environment and actively encourages collaborative projects with academic groups as well as the publication and presentation of results at scientific meetings.

We offer an excellent compensation and benefits package and significant opportunities for career development. Geneva, situated in a very attractive part of Europe, has many advantages as a place to live. The Institute for Molecular Biology is part of the Glaxo group, one of the world’s most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

If you are interested in this position, please send your curriculum vitae with a list of publications and the names of three referees to: Rita Gloor, Personnel Manager, Glaxo Institute for Molecular Biology, 14 chemin des Aulx, 1228 Plan-les-Ouates, Geneva, Switzerland.

Scientific Project Manager (Ph.D)
Los Angeles

Alpha Therapeutic Corporation is a leader in the manufacture and worldwide distribution of plasma derivatives and pharmaceutical products. Our reputation within the industry makes us a company you can count on for professional challenge, recognition and rewards. We have a career opportunity for a Scientific Project Manager.

The position involves managing the Corporation's ongoing commercial stability program and will involve interacting with government regulatory agencies. Responsibility for identifying product samples for testing, tracking and analysis of test data and compilation and interpretation of test data for presentation to the FDA are involved.

The position requires a Ph.D. or equivalent in biochemistry, chemistry or other life sciences along with 3-5 years experience in a clinical or biochemical research laboratory. Selected candidate must possess excellent verbal and written communication skills, have a good background in statistics, possess demonstrated managerial abilities and be computer literate.

Alpha Therapeutic offers competitive salaries, excellent benefits and advancement opportunities. For immediate consideration, please submit your resume and salary requirements to: Alpha Therapeutic Corporation, Attn: Nan Maaskamp, Manager, Human Resources, Mail Stop NM-825, 5555 Valley Blvd., Los Angeles, CA 90032. AA/EOE.
The Department of Biological Sciences has recently occupied a new seven-story Biological Sciences Building and undertaken a major development effort which includes the recruitment of a significant number of new faculty over the next four years. Applications and nominations are invited for tenure-line faculty positions at any rank from individuals with research interests in the following four areas (areas of particular interest are noted):

**MEMBRANE BIOLOGY**
(signal transduction or membrane excitability)

**EVOLUTIONARY ECOLOGY**
(adaptive nature of phenotypes or genetic systems)

**MOLECULAR CELL BIOLOGY**
(signal transduction pathways)

**MOLECULAR MICROBIOLOGY**
(prokaryotic/lower eukaryotic gene expression and regulation)

Applicants should have a doctoral degree and suitable postdoctoral experience. Successful candidates will be expected to establish extramurally-funded research programs and to teach at the undergraduate and graduate levels. Women and minority candidates are encouraged to apply. Review of applicants will begin on 4 January 1993 and continue until suitable candidates have been identified. Send curriculum vitae, including a one page statement of research interests, and the names of at least three references to:

Dr. P. Dennis Smith, Chair
Department of Biological Sciences
Wayne State University
Detroit, Michigan 48202

Wayne State University is an Equal Opportunity/Affirmative Action Employer

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**Grants for Research in Japan**

The National Science Foundation (NSF) and the Japan Foundation’s Center for Global Partnership (CGP) announce a new program to encourage U.S. scientists and engineers to participate in research in Japan. U.S. science and engineering researchers at the level of postdoctorate* and above in industry, government, or university, may apply for support to conduct research at Japanese corporate, government, or university laboratories.

Depending upon the length of stay, support will consists of some or all of the following items: salary, travel, relocation expenses, housing, and Japanese language study.

The U.S. researcher must take the initiative to correspond with potential Japanese hosts and to identify the one who will be the most appropriate. To aid in the search for an appropriate host, NSF will furnish upon request directories of Japanese institutions willing to receive American researchers.

Applications will follow NSF’s standard proposal format as outlined in the “Grants for Research and Education in Science and Engineering: An Application Guide,” NSF publication 92–89. Project Descriptions are limited to five pages for research stays of three to six months and 10 pages for research stays for more than six months. Beginning December 1992, proposals will be accepted for fellowships to begin after June 1, 1993. The target date for proposal submission will be February 15, 1993.

For further information as well as copies of the materials mentioned above contact:

**Japan Program**

Division of International Programs
National Science Foundation
1800 G Street, N.W.
Washington, D.C. 20550
phone: (202) 585-8682
c-mail:nsfinfo@nsf.gov (Internet) or
nsfinfo@nsf.gov (BitNet)
#92-137
TDY 202-357-7492

[* or equivalent professional research experience beyond an M.S. degree in the natural sciences or engineering]

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**Chairperson, Department of Pathology**

University of Massachusetts Medical Center

UMMC invites nominations and applications for the position of Chair of the Department of Pathology. We seek an outstanding, funded investigator who wishes to direct an academic Department of Pathology in a dynamic and expanding institution. The successful candidate must assume important responsibilities for administration and teaching.

Interested candidates should submit a letter of interest and their Curriculum Vitae to:

Dr. Aldo A. Rossini
Director, Division of Diabetes Biotech II
373 Plantation Street
Suite 218
Worcester, MA 01605

Women and minorities are encouraged to apply. The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.
The Global Environment: Invitation for Research Proposals

The Research Institute of Innovative Technology for the Earth (RITE) was established in July 1990 to tackle global environmental problems. RITE is a research institution and was created to investigate environmentally friendly technologies to cope with these issues under the directorship of Prof. Kondo, the president of the Science Council of Japan.

RITE is inviting basic research proposals concerned with environmental problems. Research works which are deemed to contribute significantly to the resolution of global environmental problems will be supported by RITE in the form of commissions.

- Invited research category:
  Basic research aimed at the development of innovative technologies which will contribute to the solution of global environmental problems.
- Invited research themes:
  [A] Research concerning greenhouse gases, such as carbon dioxide and methane gas which are considered among the main causes of global warming) on the following themes:
  1) Efficient separation, recovery, disposal, re-use, and so on of greenhouse gases
  2) Innovative process technologies which limit greenhouse gas generation
  3) Research concerning enhancement of CO2 sinks (e.g. ocean sinks, underground storage and reforestation through biotechnology.)
  [B] Research of other technologies concerning environmental problems on the following themes:
  1) Prevention of the generating and widespread release of chemical substances seriously detrimental to the environment (apart from the greenhouse gases mentioned in [A] above.)
  2) Substitutes for the chemical substances mentioned above.
  3) Recycling and effective utilization of materials.

- Number of Proposals to Be Accepted:
  Acceptance of about 10 proposals is planned.
- Allowance for commissioned research:
  Up to 10 million yen will be provided for each accepted proposal. The average allowance of the previous year was 6.8 million yen. (The allowances ranged from 5.4 million to 7.5 million yen.)

- Closing date for the submission of proposals:
  Proposals must reach RITE no later than the last day of February, 1993.
- Period for commissioned research:
  Accepted proposals will be single-year projects to be conducted during the period from around June or July, 1993 to March, 1994. However, when continuation is deemed necessary, RITE may commission further research.
- Qualification:
  Individuals or groups engaged in research activities, regardless of nationality. Research implementation sites will not be a determinant in selection.

Application:
Applicants must write to the Secretariat at RITE (to the address below) for literature detailing documents to be submitted and designated formats thereof. All accepted proposals are requested to be presented in ENGLISH or JAPANESE.

Secretariat
Mr. Isihzu or Mr. Takashima
Research Proposals Reception Section
Research Planning Department,
Research Institute of Innovative Technology for the Earth,
Shin-Kyoto Bldg. 4F, Kasauma nishI-iru, ShikokuchO-dori,
Shimogyo-ku, Kyoto 600 Japan
TEL: 81-75-361-3611
FAX: 81-75-361-5607

This program is carried out on commission by the New Energy and Industrial Technology Development Organization (NEDO).

RITE
Research Institute of Innovative Technology for the Earth

UCLA NEUROSCIENCE
NEUROPSYCHIATRIC
INSTITUTE,
MENTAL RETARDATION
RESEARCH CENTER

Excellent opportunity for an outstanding neuroscientist to facilitate a large interdisciplinary research program with developmental neurobiological orientation and direct relationships with a department of psychiatry. Strong basic science components should relate to clinical neuroscience in mental retardation and child and adult psychiatry as well as neurology. The Center has a history of State and Federal support and a number of state supported faculty positions. Director must be able to work effectively with established independent investigators as well as to recruit talented new investigators. The position permits the director time for a full personal scientific program. It is anticipated that the director will hold a medical school appointment with possible joint appointments.

Please send C.V., list of publications, list of past trainees, references and a brief statement of experience, scientific goals, funding and personal research interests to:

John C. Liebekind, Ph.D.
Chair, MIRCS Search
Department of Psychology-Franz Hall
University of California, Los Angeles
Los Angeles, CA 90024

UCLA is an Affirmative Action/Equal Opportunity Employer.

Pfizer

Histology (Hard Tissue) Laboratory Supervisor

- Supervise laboratory staff
- Coordinate clinical/pre-clinical specimen processing

At Howmedica, a global leader in the manufacture of orthopaedic implant medical devices and a division of Pfizer Hospital Products Group Inc., we are committed to groundbreaking research and development. Recent expansion has created an opportunity for an experienced Histology Laboratory Supervisor at our Worldwide Research Center in Rutherford, New Jersey.

To qualify, you should possess a bachelor's degree (or equivalent experience) in a scientific discipline, with at least five years' general histology experience including at least three years in biomaterial processing with material/tissue/implant interactions. At least one year of successful supervisory experience is required; experience and familiarity with the EXAKT system is preferred, along with the ability to qualitatively interpret undecalcified sections.

In return, Howmedica offers a new, 30,000 square foot, state-of-the-art research facility located less than 10 miles from Manhattan; an excellent salary; comprehensive benefits; and the support of a well-respected, Fortune 100 industry leader. For confidential consideration, please send your resume, indicating salary history and requirements, to: Mr. Donald Stewart, Personnel Manager, Howmedica, Inc., 359 Veterans Boulevard, Rutherford, New Jersey 07070. We are an equal opportunity employer.

Howmedica
The University of California, San Diego invites applications for a tenure-track faculty position at the assistant professor level in Mammalian Molecular Biology. The position is available effective Fall, 1993, subject to availability of funding. Possible areas of interest include molecular genetic controls of mammalian development, targeted mutations in the mouse genome, signal transduction, hematoepoiesis, DNA replication, regulatory mechanisms involved in transcription, transport, or translation of mRNA, and the function of higher order chromosomal structures. Exceptional candidates in all areas of mammalian cell biology will be considered. Salary will be commensurate with level of appointment and based on UC published salary scale. The successful candidate is expected to develop a vigorous research program and to participate in the department's undergraduate and graduate teaching programs. A Ph.D. and productive postdoctoral training is required. Please submit curriculum vitae, a statement of professional goals and research interests, and the names of three references by February 15, 1993.

Mammalian Search Committee
H. Garrie Garnett
Department of Biology
University of California
San Diego
9500 Gilman Drive
La Jolla, CA 92093-0434

The University of California, San Diego, is an equal opportunity/affirmative action employer. We strongly encourage women and minorities to apply.

POSITIONS OPEN

CELL BIOLGIST

ELECTRON MICROSCOPY

University of California, San Diego

The Department of Biology at the University of California, San Diego, invites applications for a FACULTY POSITION IN MAMMALIAN MOLECULAR BIOLOGY. The position involves the innovative applications of electron microscopy and related techniques to fundamental problems of cell biology. The successful candidate, effective Fall, 1993, subject to availability of funding. Preference will be given to an individual who will also oversee the Departmental Laboratory of Electron Microscopy. Salary will be commensurate with the level of appointment and based on the University of California salary scale. The successful candidate is expected to pursue a vigorous research program in cell or molecular biology and to participate in undergraduate and graduate teaching programs.

Please submit curriculum vitae, a statement of prior experience, professional goals, and research interests, and names of three references by January 31, 1993, to: Cell/IM Search Committee, c/o Ms. Mary Sue Webb, Department of Biology 0346, University of California, San Diego, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0346.

The University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately (January 1993) to study transport, processing and presentation of major antigens using cell and molecular biological approaches. Experience in molecular biology and biochemistry methodologies is required. Please send or fax curriculum vitae and names and addresses of three references to: Dr. Alan N. Houghton, M.D., Immunology Program, Box 465, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. FAX: (212) 754-9352.

POSTDOCTORAL POSITION available immediately to study molecular genetics and biochemistry of membrane lipid and macromolecular synthesis in Escherichia coli. Experience in one or more of the following areas is required: recombinant DNA techniques, protein isolation and characterization, lipid biochemistry. Interested individuals should send curriculum vitae and names of three references to: Dr. Timothy J. Larson, Department of Biochemistry, Virginia Tech, Blacksburg, VA 24061-0308. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study the role of transcription factors in the development of the T cell lineage (e.g., Science 258:808, 1992). Experience in at least two of the following areas is required: recombinant DNA techniques, gene regulation, expression in eukaryotic systems or protein chemistry. Send curriculum vitae and names of addresses of three references to: Dr. K. Georgopoulos, CBRC, Massachusetts General Hospital, Building 149, 13th Street, Charlestown, MA 02129.

POSTDOCTORAL POSITION available immediately to study the interaction of T cell receptors with peptide-MHC complexes using murine models of autoimmune disease (Ward, J. Med. Biol. 224:885, 1992). Experience in molecular biology and/or immunology is desirable, but applicants with experience in other areas will be considered. Please send curriculum vitae and names of three references to: Dr. E. Sally Ward, Cancer Immunobiology Center, U.T. Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-8576. U.T. Southwestern is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to join ongoing projects related to inborn errors of intracellular metabolism of covalamid (ol) mutations. Experience in a variety of molecular biology techniques is preferred. Please send curriculum vitae, summary of research experience and name of three references to: Dr. Patrick Gilmartin, Cell Biology, L-137, The Cleveland Foundation Clinic, 9500 Euclid Avenue, Cleveland, OH 44195-5139. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the mechanisms of iron uptake in Haemophilus influenzae, a key in vitamin B12 and characterizing genes involved in iron acquisition and regulation. Experience in molecular biology would be preferred but not essential. Send curriculum vitae and three references to: Terrence L. Stull, M.D., Department of Pediatrics, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129.

POSTDOCTORAL POSITION available immediately to study the biochemistry of integrin-mediated signalling events in cellular adhesion, spreading, and migration. Send curriculum vitae and three references to: Dr. David A. Cheresh, Department of Immunology, The Salk Institute, 10010 North Torrey Pines Road, La Jolla, CA 92037. FAX: (619) 554-6705. Equal Opportunity Employer.

POSTDOCTORAL POSITION

CELLULAR AND MOLECULAR BIOLOGY

University of California, San Diego

Position available to participate in research on regulation of membrane trafficking. Candidates must have a Ph.D. or M.D. degree with training and experience in cell/molecular biology or biochemistry/pharmacology. Investigative background in signal transduction (GTP binding proteins, protein kinases) preferred. Experience in protein purification, immunocytochemistry, and Western blotting. Salary at $26,000 per year and is commensurate with prior experience. Send curriculum vitae and names of three references to: Dr. Marilyn G. Farquhar
Division of Cellular and Molecular Medicine
University of California, San Diego
La Jolla, CA 92093-0651
Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available in Hema-

tology/Oncology Research Laboratory, New England Deaconess Hospital, Boston, MA. A position for postdoctoral candidates to work on generation of novel immunotherapies, studies of candidate vaccines and HIV protease inhibitors, and/or development of anti-HIV vaccines. Ph.D. in an M.D. or Ph.D. in molecular biology and 2 to 3 years of postdoctoral training in HIV biology. Experience in DNA chemistry in vitro, NMR, protein expression and purification, immunohistochemistry, and HIV propagation and assay methods is required. Experience with cellular cytotoxicity assays, using HIV infected cells as targets, is preferred. Salary: $25,000 to $35,000 per year according to experience. Send resume and three reference letters to: Dr. Randal A. Byrn, Ph.D., Hematology/ Oncology Research, New England Deaconess Hospital, 185 Pilgrim Road, Boston, MA 02215.

POSTDOCTORAL POSITION to Study Molecular Biology of p53.

A position is available to study molecular mechanism of the tumor suppressor p53. Applications are invited from persons with experience in isolating and characterizing the molecular biology of the tumor suppressor p53 and associated proteins. Current focus in the laboratory is understanding the mechanisms of transcription and how transforming mutants of p53 may aid in cancerous development. This challenging opportunity exists in a small but energetic and interactive laboratory. Persons with expertise in recombinant DNA technologies and protein purification are especially encouraged to apply. Please send curriculum vitae and names of three references to: Sumitra De, Ph.D., Department of Microbiology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284-7758. The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.

THE UNIVERSITY OF CALIFORNIA

AT SAN DIEGO

DEPARTMENT OF BIOLOGY

FACULTY POSITION IN MAMMALIAN

MOLECULAR BIOLOGY

The Department of Biology, University of California, San Diego invites applications for a tenure-track faculty position at the assistant professor level in Mammalian Molecular Biology. The position is available effective Fall, 1993, subject to availability of funding. Possible areas of interest include molecular genetic controls of mammalian development, targeted mutations in the mouse genome, signal transduction, hematoepoiesis, DNA replication, regulatory mechanisms involved in transcription, transport, or translation of mRNA, and the function of higher order chromosomal structures. Exceptional candidates in all areas of mammalian cell biology will be considered. Salary will be commensurate with level of appointment and based on UC published salary scale. The successful candidate is expected to develop a vigorous research program and to participate in the department's undergraduate and graduate teaching programs. A Ph.D. and productive postdoctoral training is required. Please submit curriculum vitae, a statement of professional goals and research interests, and the names of three references by February 15, 1993, to:

Mammalian Search Committee
H. Garrie Garnett
Department of Biology
University of California
San Diego
9500 Gilman Drive
La Jolla, CA 92093-0434

The University of California, San Diego, is an equal opportunity/affirmative action employer. We strongly encourage women and minorities to apply.

FACULTY POSITIONS

IN CELLULAR AND MOLECULAR BIOLOGY

The Department of Cellular and Molecular Physiology of The Pennsylvania State University College of Medicine invites applications for tenure-track faculty positions at the Assistant/Associate Professor rank to begin in Summer of 1993. The Department presently has fifteen full-time, well-funded faculty whose research interests include areas of cellular and molecular physiology. We are seeking candidates with substantial research experience at the postdoctoral level, or above, in any area of molecular biology and recombinant DNA techniques in one or more of the following areas: metabolic regulation, mechanisms of hormone action, membrane receptors, signal transduction mechanisms, and regulation of expression of eukaryotic genes. Specific qualifications and experience needed are: candidates who are using cellular models to study the pathogenesis of diabetic retinopathy as well as candidates who are investigating the molecular mechanisms that respond to cell damage by either therapeutic agents or pathophysiological stimuli. Significant research accomplishment and ability to obtain independent funding are essential. Excellent opportunities exist for research collaboration, teaching in a medical school, sabbatical, and participation in one or more graduate programs. Applicants should submit, prior to February 1, 1993, curriculum vitae, reprints, statement of current and planned research interests, and letters from at least three references to: Dr. Leonard S. Jefferson, Chairman, Department of Cellular and Molecular Physiology, College of Medicine, The Pennsylvania State University, P.O. Box 850, Hershey, PA 17033. An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.
Request for Consultants to Serve as NIH Peer Reviewers

The National Institutes of Health (NIH) is in the process of expanding its consultant file of peer reviewers. These reviewers are selected from a national pool of scientists who are engaged in basic or applied research. Data from qualified respondents will be entered into a computerized database. This unique database is used as one source from which candidates for membership on NIH committees and for other advisory activities are drawn. Consultant scientists act in an advisory capacity to assist NIH in the evaluation of research projects.

All qualified scientists are requested to participate.

Qualified women and minority scientists are encouraged to apply.

All scientists who are interested in participating should respond by requesting a Candidate Information Form. Since the expanded file is based solely on positive responses, your response is needed even if you are already a consultant or are a member of a Reviewer's Reserve. This file is independent of other consultant files. Your request should be sent to:

NIH Consultant File
7101 Wisconsin Avenue, Suite 1125, Box 92
Bethesda, MD 20814

Fax response to (301) 718-8439 or mail today!

MINORITY MEDICAL FACULTY DEVELOPMENT RESEARCH FELLOWSHIPS

The Minority Medical Faculty Development Program, sponsored by the Robert Wood Johnson Foundation, has up to twelve new positions available beginning in 1994. The program offers postdoctoral research fellowships to physicians from under-represented minority groups as defined by the Association of American Medical Colleges. These individuals must have demonstrated superior academic and clinical skills and have committed themselves to careers in academic medicine with special interest in either BIO-MEDICAL RESEARCH, CLINICAL INVESTIGATION OR HEALTH SERVICES RESEARCH. The fellowship supports four consecutive years of research. Each Fellow selected will receive an annual stipend of up to $50,000.00 with 5% increases per year and a fixed $25,000.00 annual grant toward support of research activities.

In addition to the above stated eligibility requirements, applicants must be U.S. citizens and must have completed their formal clinical training by the projected time of entry into the program.

Applications for appointment in 1994 must be submitted by April 30, 1993. Interviews with selected applicants will be carried out in July 1993, and successful candidates will be notified in November 1993.

For further information and application materials, contact:

Harold Amos, Ph.D., Program Director or Charlotte Litt, Ph.D., Deputy Director
Minority Medical Faculty Development Program
Harvard Medical School
P.O. Box 446
Brookline Village, MA 02147
Telephone: (617) 732-1574

Niagara University

ASSISTANT PROFESSOR OF BIOLOGY

The Department of Biology of Niagara University invites applications for two tenure-track positions available beginning August 1993. Postdoctoral experience is desirable for both positions.

(1) Developmental Biologist Ph.D. and ability to teach advanced courses in embryology, developmental biology, molecular genetics, and biochemistry.

(2) Microbiologist Ph.D. in Microbiology with ability to teach courses in microbiology, bacteriology, environmental microbiology and immunology.

The Department of Biology is committed to excellence in undergraduate education, and teaching at the introductory and advanced levels is expected. In addition, the candidate is expected to develop an individual research program involving undergraduate students. Startup funds and departmental resources are available for the successful candidate. Opportunities are also available and are encouraged for collaborations with local research and industry groups. Salary is competitive, and will be commensurate with the successful candidate's experience. Application should demonstrate exceptional abilities in teaching and research and should include curriculum vitae, three (3) letters of reference, and a summary of current and future research plans. Applications must be received by December 31, 1992.

Send to:
Dr. Carol R. Sweeney, Chairperson
Department of Biology
Niagara University, Box 2032
Niagara University, NY 14109

The Department of Physiology of the Temple University School of Medicine, in conjunction with the Temple University Sol Sherry Thrombosis Research Center is seeking applicants for a tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR LEVEL. Applicants should have an M.D. or a Ph.D. degree and a proven record of accomplishment in the area of endothelial physiology and/or vascular wall biology. Individuals with backgrounds in cellular and molecular biology, biochemistry, or pharmacology are encouraged to apply. The successful candidate is expected to develop an independent research program and to involve himself/herself in the teaching responsibilities of the Department of Physiology. Send curriculum vitae, a description of research interests, and three letters of reference to:

DR. JAMES P. RYAN, DEPARTMENT OF PHYSIOLOGY, TEMPLE UNIVERSITY SCHOOL OF MEDICINE, 3401 N. BROAD ST., PHILADELPHIA, PA 19140.

Temple University is an Equal Opportunity Employer. Applications are encouraged from women and members of minority groups.

Choose TEMPLE
**POSITIONS OPEN**

**RETINAL NEUROBIOLOGY**

A POSTDOCTORAL POSITION is currently available for a recent Ph.D. or M.D. with an interest in retinal neurobiology. Potential projects include studies on the regulation of neurotransmitter release, retinal neurotransmitter receptors and signal transduction, second messenger cascades in photoreceptor cells and their roles in gene expression and melanin biosynthesis, circadian rhythms in retina, and regulation of postnatal ocular growth and myopia by retinal neurotransmitters and growth factors. Interested individuals should send curriculum vitae, statement of research interests, and names of three references to: P. M. Iwuno, Department of Pharmacology, Emory University School of Medicine, Atlanta, GA 30322–1090. Emory University is an Affirmative Action/Equal Opportunity Employer.

**POSITIONS OPEN**

**NEUROCHEMISTRY/NEUROENDOCRINOLOGY**

A POSTDOCTORAL FELLOWSHIP position is available in the Department of Pharmacology/Toxicology at Michigan State University (MSU). The successful candidate will study interactions of hypothalamic catecholaminergic systems with peptide and serotonin receptors in neuroendocrine systems. Experience in molecular biology techniques is preferred, but not essential. Send curriculum vitae and the names of three references to: Dr. Keith J. Lookingland, Department of Pharmacology, Michigan State University, B-432 Life Sciences Building, East Lansing, MI 48824. MSU is an Affirmative Action/Equal Opportunity Institution.

**POSTDOCTORAL POSITION**

Available February 1993 for Ph.D., M.D. specializing in neuropharmacology-neurochemistry. Experience derived in cerebral dialysis or push-pull perfusion with background in chemical separation and analysis of serotonin and related amines. Send curriculum vitae, statement of research interests, and three letters of recommendation by 1 January 1993 to: Dr. R. D. Myers, Department of Pharmacology, East Carolina University, Greenville, NC 27858. Federal law requires proper documentation of identity and employability at the time of employment. Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION**

Available to study molecular biology of human disease. Research involves study and isolation of genes for tuberous sclerosis using genetic linkage strategies and physical mapping techniques. Molecular genetics/biology experience preferred but not essential. Send curriculum vitae, statement of research interests, and three references to: Dr. Margaret Pericak-Vance, Box 2990, Duke University Medical Center, Durham, NC 27710. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**

Available immediately to develop a mouse model for genetic deficiency of cystathionine β-synthase using recombinant techniques in embryonic stem cells. Requirements: U.S. residency, Ph.D. or similar professional degree; hands-on experience in cellular and molecular biology. Please send or FAX: (303-270-8088) a copy of your curriculum vitae, statement of research interests, and names of three references to: Dr. John P. Kraus, Ph.D., Pediatrics, Box C283, University of Colorado Health Sciences Center, 4200 E. Ninth Avenue, Denver, CO 80262.

**POSITIONS OPEN**

**MOLECULAR BIOLOGY**

Available immediately to study the effects of antibiotics on dynamic membrane processes. The project employs a dual-excita
dion/dual-emission spectrometer with CCD detection capability to assess transmembrane signaling events. A strong background in membrane biophysics, biochemistry or pharmacology is essential. Submit curriculum vitae to: Dr. Philip A. Burton, Department of Anesthesiology, Jefferson Medical College, Suite G6460, 111 South 11th Street, Philadelphia, PA 19107.

**POSITIONS OPEN**

**MOLECULAR BIOLOGY**

Available immediately to study the DNA binding and topoisomerase activities of proteins involved in the initiation of DNA replication. The research involves the use of both biochemical and molecular biological techniques. Send curriculum vitae and names of three references to: Dr. Saleem Khan, Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, Room E1.340, Pittsburgh, PA 15261. An Equal Opportunity/Affirmative Action Employer.

**C. H. BEST INSTITUTE**

**POSTDOCTORAL FELLOWSHIP**

In Diabetes Research, Molecular Endocrinology, Molecular Biology, Differentiation, Reproductive Biology, Immunology, structure and function of membranes or Lipid Metabolism. Tenable in the Banting and Best Department of Medical Research for two years after July 1, 1993. Competitive stipend. Available to new Ph.D.'s or candidates with less than two years of postdoctoral training by January 1, 1993. Send curriculum vitae, transcripts and three references of letter, preferably before January 15, 1993 to: Chair, Fellowship Committee, Banting and Best Department of Medical Research, University of Toronto, Toronto, Ontario, Canada M5G 1L4.

**HOLLAENDER POSTDOCTORAL FELLOWSHIPS**

Available to conduct energy-related research in the life, biomedical, and environmental sciences. Fellowship stipend is $30,000 annually, plus travel and research support, and is available to U.S. citizens or permanent residents. Contact: Hollaender Postdoctoral Fellowships, Science/Engineering Educational Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, TN 37831–0117, Telephone: (615) 576–9975.

**POSTDOCTORAL RESEARCHER**

Two-year position immediately available to study aspects of the interaction between sewage disposal and keel forest community dynamics. Research topics can be designed to understand long-term population trends of important species. Salary is commensurate with UC pay scales. Closing date is 31 January 1993. Affirmative Action/Equal Opportunity Employer. Submit curriculum vitae, statement of research background and goals, and names of references to: Dr. Mia Tegner, Marine Life Research Group 0201, Department of Oceanography, University of California San Diego, 9500 Gilman Drive, La Jolla, CA 92039–0201.

**POSTDOCTORAL FELLOW**

PROTEIN SIMULATION AND REDESIGN

Use MD simulations (1) to study structure-function-dynamic relations of enzymes and (2) to propose experimentally testable modifications to alter enzyme specificity and efficiency in order to improve environmental biodegradation of recalcitrant pollutants, as well as other related objectives to the U.S. Department of Energy, such as improving industrial processes and drug design. Interaction with experimental collaborators and publication productivity are essential. Significant experience with major MD packages CHARMM or AMBER and a good working knowledge of protein biophysical chemistry are preferred. Starting stipend is at least $35,000. Send a detailed curriculum vitae, five representative publications, and names of three references (include telephone number). Doctoral degree must have been awarded by January 1, 1993. Location: National Laboratory in southern California. Contact: Dr. Michael L. Ornstein, Molecular Science Research Center, Banting-Powell Best Laboratories, Department RAH5044, P.O. Box 999, K-1, Richland, WA 99352. Equal Opportunity Employer.

**POSTDOCTORAL FELLOW**

The Department of Medical Biology, UMDNJ, School of Osteopathic Medicine invites applicants for two Postdoctoral positions to study the interrelationship between human DNA repair and the elements involved in cell cycle regulation (J. Biol. Chem., January 1993). Current projects focus on gene expression and protein interaction in aging human cells and in a human ovarian cell culture model. Qualified applicants will have expertise in protein biochemistry, molecular biology techniques and immunocytochemistry. Salary range is $27,000 to $32,000 per year. Interested applicants should submit curriculum vitae, summary of research experience and three letters of reference to: Dr. Avril Cutler, Cell Biology, UMDNJ, School of Osteopathic Medicine, 401 South Central Plaza, Stratford, NJ 08084. UMDNJ, New Jersey's university of the health sciences, is an Affirmative Action/Equal Employment Opportunity Employer, M/F/H/V, and a member of the University Health System of New Jersey.

**UMD**

New Jersey

**POSTDOCTORAL FELLOW**

Positions are available in a multidisciplinary training program to study the integrative regulation of the myosin phosphorylation and nitric oxide synthase systems in cells. Biophysical, biochemical, cell biology and recom
mbinant DNA techniques will be used to examine func
tions of specific proteins in relation to second messenger pathways. Send curriculum vitae, addresses and 3 references to: Dr. M. S. South, Ph.D., Department of Physiology, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235–9040, Telephone: 214/688–6849, FAX: 214/688–2974, An Affirmative Action/Equal Opportunity Employer.

**RESEARCH ASSOCIATE POSTDOCTORAL FELLOW**

Positions available for persons with expertise in protein chemistry and/or molecular biology to participate in NIH-funded projects to determine determinants of M. tuberculosis and iron proteins of L. pneumo
diphila. Send curriculum vitae, statement of future research interests and names of references to: Dr. R. A. Horwitz, Department of Medicine, UCLA School of Medicine, 10833 Le Conte Avenue, Los Angeles, CA 90024–1688. FAX: 310–794–7156.
Research at the Glaxo Institute in Geneva is directed towards the discovery of novel molecular mechanisms that can be used as drug targets to treat serious diseases. In particular, research is focused on the CNS, allergies and inflammatory conditions. We have an outstanding opportunity for a

Post-Doctoral CELLULAR IMMUNOLOGIST
to study the role of the chemokine family members in the activation of neutrophils and eosinophils

The successful applicant will work with Dr. Kevin Bacon and Dr. Timothy Wells in an interdisciplinary team of immunologists, biochemists and molecular biologists investigating chemokine-receptor interactions in allergy. Informal enquiries should be directed to Dr. Kevin Bacon (+41 22 706 97 08).

The Institute provides a dynamic international research environment and actively encourages collaborative projects with academic groups as well as the publication and presentation of results at scientific meetings.

We offer an excellent compensation and benefits package and significant opportunities for career development. Geneva, situated in a very attractive part of Europe, has many advantages as a place to live. The Institute for Molecular Biology is part of the Glaxo group, one of the world’s most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

If you are interested in this position, please send your curriculum vitae with a list of publications and the names of three referees to: Rita Gloor, Personnel Manager, Glaxo Institute for Molecular Biology, 14 chemin des Aulx, 1228 Plan-les-Ouates, Geneva, Switzerland.

FACULTY POSITIONS IN ANIMAL PHYSIOLOGY. Applications are invited for a position in physiological ecology to begin September 1993. The position will either be a two-year appointment as a combined Teaching/Research Postdoctoral Fellowship with a modest teaching component or it will be a one-year sabbatical replacement with a full time commitment to teaching. Salary competitive and consistent with level of experience.

The two-year POSTDOCTORAL TEACHING FELLOWSHIP is designed for an applicant who intends to pursue a teaching/research career in a liberal arts college. This position will provide the successful applicant with an opportunity to develop teaching skills in animal physiology and one other upper-level course, and to participate in research on the physiological ecology of vertebrate eggs. The one-year SABBATICAL REPLACEMENT position will include participation in freshman level courses and an upper level course in animal physiology. Ph.D. and teaching experience are preferred.

Kalamazoo College is a highly selective national known liberal arts college that takes pride in its tradition of outstanding undergraduate science education. Candidates are expected to have high aptitude and interest in undergraduate teaching, a commitment to the liberal arts, and a desire to involve undergraduates in scholarship both inside and outside the classroom.

Review of applications will begin 15 January 1993 with later applications reviewed as needed. Send letter of application indicating the position of interest, curriculum vitae, transcripts (unofficial acceptable), statement of teaching philosophy and research interests, and three letters of recommendation to Dr. Paul Sutherland, Department of Biology, Kalamazoo College, 1200 Academy Street, Kalamazoo, MI 49006-3295. AA/EOE. Kalamazoo College particularly encourages women and minorities to apply.
Senior Microbiologist
(Limnologist)
$4,752 - $8,906/mo.

MWD, one of the world’s largest water agencies, seeks an experienced limnologist. This is a working supervisor position to provide field support for water quality monitoring throughout Metropolitan’s system and conduct basic and applied research on taste and odor control, storm water runoff, water quality and aquatic weed control. Advanced open water diving certification is desired. Demonstrated experience required with design and execution of limnological field studies including statistical analysis, report writing, and oral presentation. M.S. in limnology related Aquatic Sciences desired with at least two years’ management or supervisory experience. Position location: City of La Verne. Limited relocation assistance available.

To request an application, call 1-800-540-6311 (in CA) or (213) 258-6453 and refer to Job Code 92-315 JB. Resumes cannot be substituted for a completed application. Open only until sufficient applications are received. MWD supports the principles of equal opportunity and affirmative action. Women, minorities, veterans and the disabled are encouraged to apply.

MWD
METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA
We Tap Only The Best

ASSISTANT PROFESSORSHIP

A full-time, tenure-track position is available in the Department of Tumor Biology at The University of Texas M. D. Anderson Cancer Center in Houston for a qualified applicant in the area of tumor cell biology, tumor biochemistry, tumor molecular biology or other fields related to cancer research. Particular emphasis will be in the area of cancer invasion and metastasis. Candidates should have a doctoral degree and postdoctoral experience and should demonstrate exceptional potential in research and graduate teaching. Applicants should include a curriculum vitae, names and telephone numbers of at least five references and a 1–2 page statement of current research activities and future interests to: Prof. Garth L. Nicolson, Chairman, Department of Tumor Biology (Box 108), The University of Texas M. D. Anderson Cancer Center, 1515 Holcomb Blvd., Houston, TX 77030.

The University of Texas in an

POSITIONS OPEN

POSTDOCTORAL RESEARCH SCIENTIST

Postdoctoral position available immediately in an active research group studying cellular and molecular aspects of low dose-rate irradiation relevant to the radiation therapy of cancer. Experience in cell culture techniques and in the radiobiology of human cells required. Send curriculum vitae, names and addresses of three references to: Dr. Linda E. Crawford, Department of Radiological Research, Columbia University, 630 West 168th Street, New York, NY 10032. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE for a Medical Genetics Group. The position involves applied clinical biochemical research and some laboratory service for the diagnosis of metabolic diseases. The successful candidate will lead the section specializing in organic acid analysis of physiological fluids. A Ph.D. in science and knowledge of gas chromatography-mass spectrometry is required for a faculty position. The candidate must have at least one year of experience in a diagnostic biochemical genetics laboratory. Starting salary is $27,040 per year. Send resume or apply in person to: Georgia Department of Labor, 1275 Clarendon Avenue, Avondale Estates, GA 30002, or to the nearest Georgia Job Placement Center. Job Order #5580291.

RESEARCH SPECIALIST

Specialist in Tumor Biology

The Howard Hughes Medical Institute (HHMI) has an opening for a Research Specialist in its research unit at the National Jewish Center for Immunology and Respiratory Medicine. Responsibilities include transgenic mice production, mouse colony management, embryonic manipulation, microinjection and rederivation of existing mouse strains. Requirements: for this position are a B.S. degree in a related field, and five years of experience. HHMI offers excellent salaries, and a generous benefits package. Please send curriculum vitae, salary requirements and three references to: Dr. P. Marrack, Howard Hughes Medical Institute, 5122 East Northwest Highway, National Jewish Center, 1400 Jackson Street, Denver, CO 80206. An Equal Opportunity Employer.

HOWARD HUGHES
MEDICAL INSTITUTE

IMMUNOLOGIST

The Division of Pathobiology and Immunobiology of the York Regional Primate Research Center, and the Department of Microbiology and Immunology, School of Medicine, Emory University have an opening for an immunologist with experience in retrovirus research. Candidates should have a Ph.D., D.V.M., M.D., or equivalent and should have sufficient research experience to demonstrate the ability to establish an independent research program in areas related to the pathogenesis of AIDS and related retroviruses in nonhuman primate models. The successful applicant will also participate in ongoing clinical, veterinary, and pathologic studies with human or simian immunodeficiency viruses. The primary appointment will be at the York Regional Primate Center, with a secondary appointment in the Department of Microbiology and Immunology. Salary is negotiable and commensurate with experience. The position is available immediately. Letters of application, including curriculum vitae, a brief statement of research interests, and the names of three references, should be forwarded to: Dr. Harold McClure, Associate Director for Laboratory Operations, York Regional Primate Research Center, Emory University, Atlanta, GA 30322. Applications should be submitted by January 1, 1993. Emory University is an Equal Opportunity/Affirmative Action Employer.

PERSONNEL PLACEMENT ADS in our line classifications are boxed for higher visibility. Call SCIENCE at 202-326-6558 for details.

positions open

RESEARCH ASSOCIATE/POSTDOCTORAL RESEARCH FELLOW. The Division of Endocrinology, Department of Pediatrics, University of Pittsburgh has an opening for a Ph.D. Molecular Biologist to participate as a Research Associate/Postdoctoral trainee in research relating to the molecular mechanisms involved in the regulation of growth factors expression in cell-cell communication and development. Fully operational and equipped laboratory currently staffed by M.D., Ph.D. and technical support with endowed NIH funding. The successful candidate would be eligible for faculty appointment. Salary and benefits are competitive. This position is available July 1, 1993. In order to ensure full consideration, applications must be received by March 31, 1993. Contact: Mrs. Mark A. Sperling, Chairman, Department of Pediatrics, Children's Hospital of Pittsburgh, 3705 Fifth Avenue, Pittsburgh, PA 15213. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE to manage Transgenic Facility. The Departments of Biological Sciences and Pediatrics, University of Pittsburgh and Children's Hospital of Pittsburgh are currently seeking a Ph.D. to direct the operation of a transgenic facility already under development. Experience in Stem Cell Technology is preferred but not required. Salary competitive with industry and commensurate with experience and skill. This is a tenure-stream position is available July 1, 1993. In order to ensure full consideration, applications must be received by March 31, 1993. Contact: Dr. Jerry L. Christensen, Dean, Department of Optometry, University of Missouri–St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121. The University of Missouri is an Equal Opportunity/Affirmative Action Employer, and complies with the Americans with Disabilities Act of 1990.

VISION SCIENTIST

NEUROANATOMY/NEUROPHYSIOLOGY

The University of Missouri–St. Louis School of Optometry seeks a vision scientist to teach professional and graduate level neuroanatomy/neurophysiology, and possibly human anatomy/physiology, oculomotor/physiology. Active research and external support expected. Rank/salary/appointment date negotiable. Letters, resumes, and names of three references should be sent to: Dr. Jerry L. Christensen, Dean, School of Optometry, University of Missouri–St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121. The University of Missouri is an Equal Opportunity/Affirmative Action Employer, and complies with the Americans with Disabilities Act of 1990.

ANIMAL ECologist

The Biology Department of City College of the City University of New York seeks a tenure-track position in Animal Ecology for Fall 1993. We seek a candidate who can teach in our Organismic Biology courses for majors (and who will develop a strong research program based on local environmental resources). Teaching and research activities in both our undergraduate and graduate programs (M.A. and Ph.D.) will be expected, and college or university teaching experience would be desirable. Rank and salary are open and depend upon experience and qualifications. Please send detailed curriculum vitae, including teaching experience and research plans, and the names, addresses, and telephone numbers of four references by February 3, 1993 to: Dr. Linda E. Crawford, Search Committee, City College of New York, Convent Avenue and 138th Street, New York, NY 10031. An Affirmative Action/Equal Opportunity Employer, M/F.

SENIOR ANALYTICAL CHEMIST/BIOCHEMIST

Position available in diverse fields of development/validation of biopharmaceuticals, including capillary and gel electrophoresis, HPLC and spectroscopy. Experience in peptide sequencing/mapping, amino acid and/or carbohydrate analysis would be beneficial. Ph.D. in chemistry/biochemistry with two to four years of industrial experience is equivalent to Ph.D. required, along with a strong background in troubleshooting and assay development.

Send resume with salary requirements in strict confidence to: Director of Human Resources, Applied Analytical Industries, Inc., 1206 North 23rd Street, Wilmington, NC 28405.
Chief of Division

MINIMUM $A95K PLUS BENEFITS PLUS CAR

CSIRO Division of Building, Construction & Engineering, Victoria, Australia

We are seeking an outstanding person who will provide strong leadership in identifying and delivering to research objectives which fulfil the needs of the building and construction industry and those of its suppliers and clients both private and public. This person will, through a combination of management skills, client orientation and a focussed concern for staff, create a climate of first class research and research delivery.

The Division’s primary mission is to improve the quality, cost-effectiveness and international competitiveness of Australia’s building and construction industries and to ensure equivalent benefit to the owners or users of particular facilities and of the infrastructure such facilities comprise. This mission will be achieved through the establishment of close working relationships with owners and users as well as with contractors, suppliers and constructors, and a corresponding relationship with government and public agencies.

The Division has some 310 staff located in well equipped laboratories at two locations, Highett (Melbourne), and North Ryde (Sydney).

The Chief will be responsible to the Director of the Institute for the leadership and direction of the Division’s research, commercialisation and technology transfer programs and the effective management of the Division’s operations. He or she will also liaise with other Divisions of IMEC and CSIRO where cross-divisional inputs are required.

Candidates should have a sound appreciation of the operation and needs of Australia’s construction and related engineering industries. A strong commitment to first class research, the transfer of research results to industry, demonstrable management skills, organisational ability and communication skills of a high order, together with the ability to interact with government and the building and construction industries at a senior level, will all be of importance.

We invite applications for the position and would also like to hear from people within the field who may wish to suggest possible candidates.

The current salary for the position will be not less than $A95K per annum and for an exceptional candidate a salary up to $A104K per annum would be offered.

Appointment to CSIRO is for an indefinite period and carries Australian Government superannuation privileges, subject to normal conditions. The position of Chief of the Division is offered for a term of five years with subsequent options for a further term if mutually desired or for a senior position in the Organisation.

Alternatively, a successful candidate may wish to negotiate a private contract.

The Chairman of the Selection Committee, Dr A F Reid, would be pleased to provide further information of the position with potential applicants. He would also be pleased to receive nominations for the appointment from people with standing in the field. He may be contacted in Sydney, Australia, by telephoning 61 2 887 812 or on facsimile 61 2 887 8197.

Applications stating full personal and professional details, and names of at least three professional referees should be directed to:

The Director, CSIRO Institute of Minerals, Energy & Construction (IMEC) PO Box 93, North Ryde, NSW 2113

AUSTRALIA, Closing date for applications is 29 January 1993

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A FORMULA FOR YOUR FUTURE

The formula for your future begins with Fujisawa Pharmaceutical Co. and continues with such elements as innovative technology, a visionary work environment and professional growth. We are currently seeking a:

SR. SCIENTIST

Position will prepare technical reports for the FDA (including INDs, NDAs and Investigator Brochures), maintain complete library of publications on FPC drugs and coordinate/review prepared study reports.

Qualifications include Ph.D., Pharm.D. or M.D. in Pharmacology or Biomedical Sciences with several years experience in the pharmaceutical industry or biomedical research. Excellent writing and editing skills required. Must be computer competent (WordPerfect 5.1) and have superior oral communication/organization skills. Knowledge of FDA regulations for INDs and NDAs helpful.

As an industry leader, we can provide you with a rewarding career opportunity, and an excellent compensation package including a 401(k) plan. For consideration, please forward resume with salary history to: Sheryl Jordan, FUJISAWA PHARMACEUTICAL CO., 3 Parkway North Center, Deerfield, IL 60015. (see m/f/d/v)

Fujisawa
Pharmaceutical Co.
Division of Fujisawa USA, Inc.

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Clinical Chemistry

SENIOR SCIENTIST

Roche Diagnostic Systems, a subsidiary of world-renowned Hoffmann-La Roche, is a leader in the development, manufacture, and marketing of analytical and diagnostic products. We have an exceptional opportunity for a Scientist to conduct research leading to the development of diagnostic reagents.

This individual will be responsible for the development of stable liquid clinical chemistry tests for our COBAS Clinical Chemistry Analyzer. The qualified candidate should have a Ph.D in Biochemistry or Chemistry with a strong background in enzymology, and up to 5 years experience in the diagnostic industry (clinical chemistry preferred).

We offer a competitive salary, generous benefits package, and state-of-the-art environment that is conducive to professional success. For consideration, please forward your resume and salary requirements to: Mr. John Muccii, Dept. KFM2, Roche Diagnostic Systems, 1080 U.S. Highway 202, Branchburg, New Jersey 08876. We are an equal opportunity employer.
As part of our continuing commitment to the development of innovative bio-processes, the Biotechnology Department of the Amoco Technology Company has the following openings:

**FERMENTATION SCIENTIST**
The candidate will participate in the development of a fermentation process for production of a secondary compound in Baker’s yeast. The candidate will interact with a multi-disciplinary team in genetics, biochemists, and fermentation scientists to define the growth and medium parameters for the development of a commercial process. Two to five years of related experience in optimizing medium components, fermentation processes, and strain development is required. Experience in the operation of small and pilot scale fermentors is also required. PhD preferred, MS with relevant experience will be considered.

**MICROBIOLOGIST**
The candidate will conduct research to improve the productivity of a secondary compound in Baker’s yeast. The candidate will perform research on strain development through classical genetic and fermentation studies. Two to four years experience in strain improvement and the operation of small and pilot scale fermentors is required. BS preferred, fundamental knowledge in Genetics, Biochemistry, and Molecular Biology is essential.

**MOLECULAR BIOLOGIST**
The candidate will conduct research to improve the productivity of a secondary compound in recombinant Baker’s yeast cells. The candidate will be expected to devise, implement, and monitor the success of gene cloning strategies for the optimal expression of foreign genes in Baker’s yeast. Two to four years experience in gene cloning, analysis of gene expression, and product formation is required. BS preferred, fundamental knowledge in Genetics, Biochemistry, and Molecular Biology is required.

For immediate consideration, please forward your resume in confidence to:

Recruiting Coordinator
AMOCO RESEARCH CENTER
P.O. Box 3011 F-3HR/ Dept. RA-1218
Naperville, IL 60566-7011
Equal Opportunity Employer M/F/H/V

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**BIOMECHANICS**

Program of Human Biodynamics
Division of Biological Sciences
University of California, Berkeley

Applications are invited for a tenure-track Assistant Professor position starting July 1, 1993. Candidates should have demonstrated excellence, originality, and productivity in biomechanics and should have strong interests in undergraduate and graduate teaching. Research areas of interest may range from single cells to muscle systems to intact organisms; they may include, but are not limited to, mechanics of biomaterials and tissues, muscle mechanics and energetics, regulation of contraction, cardiovascular biomechanics, muscle-skeletal biomechanics, and movement biomechanics.

Applications, including a curriculum vitae, a list of publications, a reprint of the three most significant publications, a brief (two pages maximum) statement of research and teaching objectives, and three letters of evaluation should be sent to: Professor Timothy P. White, Chair, 103 Harmon, University of California, Berkeley, CA 94720.

The closing date for receipt of applications is January 29, 1993.

The University of California is an Affirmative Action/Equal Opportunity Employer. Women and members of under-represented minorities are especially encouraged to apply.

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**DIRECTOR CENTER FOR RADIOACTIVE WASTE MANAGEMENT**

**THE UNIVERSITY OF NEW MEXICO**

The University of New Mexico College of Engineering is seeking a Director of the Center for Radioactive Waste Management. The Center, which is now being formally organized, has over twenty faculty from across the university conducting research programs in various topics in radioactive waste management, with annual funding of over $2 million. UNM has degree and certificate programs with emphases in radioactive waste issues and an extensive series of non-credit videoconferences and short courses. The Director will assume a significant role in the New Mexico Waste-Management Education and Research Consortium (NEWREC), a consortium of New Mexico State University, New Mexico Institute of Mining and Technology, The University of New Mexico, Navajo Community College, Sandia National Laboratories and Los Alamos National Laboratory, which is funded primarily by the U.S. Department of Energy.

Candidates for Director should have an international reputation in radioactive waste management, managerial skills in an interdisciplinary setting, ability to generate and supervise externally funded research, and ability to work effectively with both the technical community and non-technical public.

Candidates must have a doctorate in engineering or science and be qualified for the position of tenured professor in one of the departments of the College of Engineering. Joint appointment with another department in the University may also be considered.

Interested persons should send a complete resume and a list of four references to:

Dr. David Kaufman, Associate Dean
College of Engineering
The University of New Mexico
Albuquerque, NM 87131

Applications must be received by January 29, 1993, for primary consideration. Salary will be commensurate with qualifications and experience.

The University of New Mexico is an equal opportunity/affirmative action employer.
The Departments of Biological Sciences and Biomedical Sciences invite applicants for a joint, tenure-track position at the rank of ASSISTANT PROFESSOR. Candidates should have an active research program (with promise of extramural funding) that involves the development and use of computational techniques, preferably in the fields of macromolecular structure or sequence analysis, prediction and/or modeling. The successful candidate will have the opportunity to interact with a large number of biophysicists and molecular biologists at the University of Albany and will have access to excellent computing and other core research facilities. The candidate will develop a course in computational approaches in structural biology, to be offered to upper level undergraduate students from various science and mathematics/computer science departments, as well as to graduate students from the host departments. The expected start date is September 1, 1993. Applicants should send a letter of intent, curriculum vitae, statement of research plans, and arrange for at least three reference letters to be sent by February 1, 1993 to:

David Shub, Ph.D., Chair, Search Committee
Department of Biological Sciences
University at Albany-SUNY
1400 Washington Avenue
Albany, NY 12222

The University at Albany, SUNY, is an Equal Opportunity, Affirmative Action employer. Applications from women, minority, handicapped persons and special disabled or Vietnam era veterans are especially welcome.

COMPUTATIONAL BIOLOGY

SENior SCientist and ASSOCIATE SCientist

PROTEIN CRYSTALLOGRAPHY

We currently have opportunities for individuals to perform research leading to novel pharmaceutical agents based on the three-dimensional structures of proteins.

Specific responsibilities include solving structures of relevant proteins such as receptor-ligand complexes, cell adhesion molecules and a variety of enzymes; and contributing to the analysis of these structures and their exploitation for drug design. In addition, these scientists will join a dynamic Macromolecular Structure Group which includes existing laboratories in protein crystallography, biomolecular NMR, protein expression, purification and characterization, and molecular modeling.

Qualifications for the SENIOR SCIENTIST include a Ph.D. in Biochemistry or a related field, broad experience in all areas of macromolecular crystallography, knowledge of protein structure and function, and the ability to perform collaborative research. Postdoctoral experience is highly desirable. RESPOND TO MS. ELEANOR MALONE, DEPT. EM232VM

Qualifications for the ASSOCIATE SCIENTIST include a BS/MS in Biochemistry/Chemistry, biochemical skills and experience with proteins. Experience in crystalizing proteins is desirable, but not required. RESPOND TO MS. JOANNA HARRINGTON, DEPT. JH242VM

We offer a competitive salary, a bonus program and a comprehensive benefits package. To apply, send resume with salary history/requirements, indicating appropriate contact name and department, to: Staffing Department, Hoffmann-La Roche Inc., Nutley, New Jersey 07110-1199. We are an equal opportunity employer.

CANCER

January 29 Special Issue

SCIENCE presents an up-to-date review of this exciting research. Special SCIENCE News and Perspectives section will highlight:

- Potential future therapies
- New developments in cancer research
- What the future holds for R & D

With millions of dollars spent on cancer research each year, the demand for scientists is growing. SCIENCE, with a paid circulation of over 154,000 scientists, is the perfect vehicle to reach this market.

Don't miss this chance to showcase recruitment opportunities available at your company. Call Janis Crowley, Recruitment Advertising Manager, at (212) 496-7704 to reserve your space today!

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Space Reservation Deadline: Tuesday, January 12

Director

Radiation Effects Research

The NATIONAL RESEARCH COUNCIL, operating arm of the National Academy of Sciences, National Academy of Engineering, and the Institute of Medicine, is seeking a director to manage the Board on Radiation Effects Research (BRER). BRER performs studies (requested and sponsored by a variety of federal agencies) on the biological effects of exposure to ionizing and nonionizing radiation and manages the NRC participation in the Japanese/American Radiation Effects Research Foundation (RERF) (located in Japan). Responsibilities include securing and budgeting funds that support the BRER studies; recruiting scientists to serve as committee staff at the NRC; and scientific and members and administrative monitoring and quality control of studies performed by BRER at the NRC. Requires a Ph.D. or equivalent in epidemiology, biostatistics, radiation biology, biophysics, or other radiation-related field; at least 6 years experience in scientific research/administration; and expertise concerning cancer causation. Applicants must be familiar with a wide-range of scientists involved in radiation effects research. Salary is competitive and the NRC maintains an excellent benefits program. Applications and salary requirements should be forwarded by January 15, 1992 to: NRC/CLS, NAS 343 (AL), 2101 Constitution Avenue, Washington, DC 20418. EOE.

NATIONAL RESEARCH COUNCIL
TOXICOLOGIST. Position available immediately for a Ph.D. with one to three years of experience in toxicology or related biological science and an interest in rodent toxicology. The Illinois Institute for Science (IIS), a public, non-profit research foundation within the International Life Sciences Institute, was established in 1985 to improve the ecological and human health aspects of toxicological principles on which assessments are based. Applicant will work with scientists from diverse disciplines and will be responsible for literature searching and analyzing technical data, drafting and editing technical manuscripts, and coordinating and staffing technical working groups. Send curriculum vitae to: IIS, Human Resources, 1126 Sixteenth Street, NW, Washington, DC 20036. IIS is an Equal Opportunity Employer.

The Division of Plastic and Reconstructive Surgery, within the Department of Surgery at the Pennsylvania State University, Milton S. Hershey Medical Center, College of Medicine is seeking a BASIC SCIENTIST for a basic research program. Qualified applicants should have a Ph.D., M.D., or equivalent degree with research experience in cellular and molecular biology, and physiology. This is a research position and the candidate will be expected to obtain external funding. The candidate will also supervise the Plastic and Reconstructive Surgery Research Laboratory, and assist in the basic science program. Those applying should have a Ph.D. and be candidates. Candidates with research interests including microvascular circulation, developmental biology, biochemistry, and molecular biology are urged to apply. Outstanding applicants with other appropriate research interests will be considered. Rank commensurate with experience.

An Affirmative Action/Equal Opportunity Employer; women and minorities encouraged to apply. Please send curriculum vitae and a brief description of research interests to: Dr. Craig M. Marks, M.D., Professor of Surgery and Chief, Division of Plastic and Reconstructive Surgery, The Milton S. Hershey Medical Center, P.O. Box 850-SC, Hershey, PA 17033.

ASSISTANT RESEARCH SCIENTIST. This position is in a biomedical research laboratory pays a salary of $20,365 per year for forty hours per week. Major duties: microdissection of skeletal and cardiac muscle cells, use of transducers, computers, and electronics for physiological and biochemical experiments on the cells, supervision of laboratory technicians and students. Sufficient training and experience in the area of skeletal and cardiac muscle physiology. Experience in the role is essential. Applicant in person or by resume to: Georgia Department of Labor, Job Order #GA 5584904, 601 Green Street, Augusta, GA 30913 or to the nearest Georgia Department of Labor Center. This is an employer paid advertisement.

ASSISTANT SCIENTIST. The Department of Ophthalmology, University of Florida, invites applications for a full-time position as an Assistant Scientist to conduct grant-supported study of the immunology, biochemistry, cell biology, or molecular biology of rhodopsin. Candidates must have at least a Ph.D. and postdoctoral training in relevant research areas; experience in vision research is a plus. Recruiting deadline is January 31, 1993, to start February 15, 1993. Candidates must submit a letter of application stating research experience, curriculum vitae, and three letters of reference. Send to: Paul A. Hargrave, Ph.D., Professor, Department of Ophthalmology, Box 100284 JHMHC, University of Florida, Gainesville, FL 32610-2840. The University of Florida is an Equal Opportunity/Affirmative Action Employer.

NEW ENGLAND AQUARIUM invites applicants for an ASSOCIATE SCIENTIST in the Conservation Biology of Fishes with emphasis in Physiological Ecology. The candidate is expected to initiate a compar- ison of the reproductive strategies and ecological elements. The candidate should hold a Ph.D. and have at least 3 years of postdoctoral experience in both field and laboratory studies. A proven track record in grant funding is necessary. Send curriculum vitae, three references, and a statement of research interests and three references to: Human Resources Manager, New England Aquarium, Central Wharf, Boston, MA 02110. No phone calls. Please respond to selected candidates only. Equal Opportunity Employer.

MEETINGS

PHARMACEUTICAL DESIGN USING EPITOPE SELECTION TECHNOLOGIES

BIOLOGY OF DISEASE VECTORS
June 20 to July 3, 1993 Colorado State University Fort Collins, Colorado

This unique course introduces the biology of vectors of infectious diseases and emphasizes current molecular biological, genetic, chemical, and physiological research. Introductions to significant aspects of vector biology, including host seeking, blood feeding, organ structure-function, gene regulation, vector manipulation and containment, and control, are covered and followed by in-depth analyses of selected major vector borne diseases. Faculty are drawn mainly from the MacArthur Foundation NSC on the Biology of Pathogen Vectors.

The course is designed for advanced graduate students, postdoctoral fellows, and independent investigators. The course can be taken for credit or for credit with permission. Accommodations are located on the main campus of Colorado State University, near lecture and laboratory facilities. Vector-pathogen experimentation and design of biosensors are conducted in the laboratory. Additional housing and meals are available.

Limited to 30 students. Enrollment is competitive. Financial aid (based on need) will be available. Application deadline is February 28, 1993. Contact: Dr. William C. Marquardt, Telephone: (303-491-5994 or 491-7167), FAX: (303-491-1816), Colorado State University, Arthropod Biology Laboratory (ADL), Foothills Campus, Fort Collins, CO 80525, USA.

COURSES AND TRAINING

MODELING STRUCTURED POPULATIONS IN MARINE, TERRESTRIAL AND FRESHWATER SYSTEMS
Cornell University 16 June–18 July 1993 Theory and applications of structured models (matrix, PDE, ODE); for graduate students and recent graduates in ecology, biology, mathematics, computer science, and environmental and housing and expenses covered. Organizers: Hal Caswell (WHOL) and Shripad Tuljapurkar (Stanford). Send statement of research interests and curriculum vitae to: Hal Caswell, Biology Department, Woods Hole Oceanographic Institution, Woods Hole, MA 02543 by 15 February 1993.
ANNUCANCEMENTS

PROPOSALS SOUGHT FOR IN VITRO SCREENING OF VAGINAL VIRUCIDES. The Contract Research and Development (CONRAD) Program is seeking proposals to evaluate the anti-HIV activity of spermicidal and other compounds supplied by CONRAD. Application deadline is February 1, 1993. For information, contact: Lee E. Claypool, Ph.D., CONRAD Program 1611 North Kent Street, Suite 806-A, Arlington, VA 22209, Telephone: (703) 524-4744.

NASA PLANETARY BIOLOGY INTERNSHIPS. The Marine Biological Laboratory, Woods Hole, Massachusetts, invites applications from graduate students and seniors accepted to graduate programs for awards of $2200 plus travel to participate in research at NASA centers and collaborating institutions for approximately 8 weeks. Typical intern programs include: global ecology, remote sensing, microbial ecology, biomineralization, and origin and early evolution of life. Application deadline: 1 March 1993. For information/applications, contact: Lorraine Olendzen, Planetary Biology Internship, Department of Biology, University of Massachusetts, Amherst, MA 01003. email: PBI@botany.umass.edu. An Equal Opportunity/Affirmative Action Institution.

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