POSITIONS OPEN

NEUROSCIENCE FACULTY POSITION

The Program in Medical Sciences and the Department of Biological Sciences of the Florida State University invites applications and nominations at the level of ASSISTANT PROFESSOR. Qualified individuals should have a Ph.D. or M.D. degree and postdoctoral training. The successful applicant is expected to establish a reproductively funded independent research program in the area of cellular or molecular neuroscience. Excellent departmental facilities and start-up funds are available. Candidates must be qualified to make major contributions to the teaching of all areas of medical physiology at a level appropriate to first-year medical students. The Program in Medical Sciences. Curriculum vitae, the names and addresses of three references, a brief description of research interests and future plans, and a summary of teaching experience should be sent by December 15, 1993, to Dr. Susan E. Dryer, Chairman, Neuroscience Search Committee, Program of Medical Sciences, 104 SCN, Florida State University, Tallahassee, FL 32306-4051. The Florida State University is an Equal Opportunity Employer and specifically invites and encourages applications from women and minority groups.

ASSISTANT PROFESSOR, ANATOMY

Applications are invited for a faculty position at the level of assistant professor in the Department of Anatomo-PH. A Ph.D. degree and postdoctoral training are required. Teaching duties will include participation in two of the following courses for first-year medical students: General, Histology, Neurology, Science. Research interests are open. Development of a research program with eventual independent funding is strongly encouraged. The College of Osteopathic Medicine (PCOM) is dedicated to teaching excellence. Please send a letter, curriculum vitae, and three references by December 31, 1993, to:

Tim Kratv, Ph.D.
Professor and Chairman
Department of Anatomy
Philadelphia College of Osteopathic Medicine
4301 W. Thomas St.
Philadelphia, PA 19131

Starting date negotiable (between February and August of 1994). PCOM is an Equal Opportunity Employer.

FACULTY POSITION IN NUCLEAR MAGNETIC RESONANCE

The University of Florida Center for Structural Biology had a tenure-track ASISTANT or ASSOCIATE PROFESSOR position in Magnetic Resonance in conjunction with the National High Magnetic Field Laboratory (NHMFL). This person will conduct innovative research emphasizing NMR using existing 300 and 600 MHz spectrometers in the Center, with access to a 900 MHz. Additional support is provided through NHMFL facilities, including prototype magnets and spectrometers operating at 1T and higher. Applicants must have Ph.D. degree, a minimum of 5 years of postdoctoral experience in NMR spectroscopy, and interest in developing and expanding experimental techniques. Collaborative research, in areas such as Biochemistry, Pharmacology, and Physiology, are an important aspect of this position. Anticipated starting date is July 1, 1994. Salary commensurate with experience. Send curriculum vitae, statement of research interests, and three letters of reference by December 31, 1993, to: Dr. Thomas Mareci, Director, UF Center for Structural Biology, Box 100245, Gainesville, FL 32610. Application. Equal Opportunity/Affirmative Action Employer, M/F/D/V.

BIOLOGY: The Department of Biology at St. John Fisher College invites applications for a tenure- or nontenure-track position at the ASSISTANT PROFESSOR level, to begin in late August 1994. Primary teaching responsibilities include anatomy and physiology courses for nursing majors. Development of additional courses is expected in this specialty area. Applicants must be able to work effectively with non-science students. A doctorate in the biological sciences is required. A strong commitment to teaching undergraduates is essential. The ability to work with course syllabi is especially encouraged to apply. The candidate will be expected to develop a strong, creative research program and to participate in the undergraduate curriculum. The application should include a letter of interest describing the candidate's qualifications and teaching experience, curriculum vitae, and three letters of recommendation. Closing Date: Open until filled, but all application materials including letters of recommendation must be received before early November, 1993, to be assured full consideration. The University of California at Los Angeles is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF PLANT BIOLOGY—The Division of Biological Sciences, University of California, Davis, invites applications and nominations for an Assistant Professor of Plant Biology. This is a full-year, tenure-track position in the Section of Plant Biology within the newly reorganized Division and department (formerly the Botany and Experimental Station). A Ph.D. (or equivalent) is required and postdoctoral experience is desirable. Candidates must have an outstanding record of research and will be expected to develop a strong research program in plant biology with preference for an individual using the powerful tools of developmental genetics to investigate problems in morphogenesis. The University of California is interested in candidates who reflect the highest standards of scholarship and professionalism and who commit to improving the diversity of the University and the academic environment for all. Applications are invited from women and members of minority groups. A cover letter, curriculum vitae, statement of current research interests, and three letters of recommendation are invited. Closing Date: Open until filled, but all application materials including letters of recommendation must be received before November 20, 1993, to be assured full consideration. The University of California is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF MOLECULAR AND CELLULAR BIOLOGY—The Division of Biological Sciences, University of California, Davis, invites applications and nominations for an Assistant Professor of Molecular and Cellular Biology. This is a full-year, tenure-track position in the Section of Molecular and Cellular Biology within the newly reorganized Division and department. The successful applicant will be expected to develop a strong research program in cell biology emphasizing the structure, function, and regulation of supramolecular complexes in a cellular or developmental context. Examples include: chromosomal and mitochondrial trafficking; membrane specialization, such as nuclear pores; or macromolecular assemblies important for development, such as P-granules. The successful candidate will be expected to teach advanced and graduate level courses. Participation in the advising programs coordinated by the Division of Biological Sciences is required. Candidates should submit curriculum vitae, a statement of their current and proposed research, and a statement of teaching experience and interests. Application materials should include a letter of recommendation sent to: Provost Research, Chair, Search Committee, Section of Molecular and Cellular Biology, Division of Biological Sciences, University of California, Davis, CA 95616-8519. Closing Date: Open until filled, but all application materials including letters of recommendation must be received before November 20, 1993, to be assured full consideration. The University of California at Los Angeles is an Equal Opportunity/Affirmative Action Employer.
Howard Hughes Medical Institute

Postdoctoral Research Fellowships for Physicians

1994 Competition
25 Fellowships will be awarded to physicians by the Howard Hughes Medical Institute for three years of training in fundamental biomedical research. Awards, based on an international competition, focus on research directed to understanding basic biological processes and disease mechanisms. Fellowships may be held at any academic or not-for-profit research institution, including but not limited to Hughes laboratories.

Fellowship Terms
- Three years of support
- Full-time fundamental research
- $35,000-$55,000 annual stipend
- $15,000 annual research allowance
- $12,000 annual institutional allowance

Eligibility
- M.D., M.D./Ph.D. M.B.B.S., or D.O., with the first medical degree awarded no earlier than 1984
- At the start of the fellowship
  - at least two years of postgraduate clinical training completed
  - no more than two years of postdoctoral research training completed
- Applicants (and fellows) may not have faculty appointments
- Fellows may not be enrolled in graduate degree programs
- No citizenship requirements: U.S. citizens may study abroad, but others must study in the United States

Schedule
- Application deadline: January 5, 1994
- Awards announced: July 1994
- Fellowships start: September 1, 1994–September 1, 1995

For 1994 Program Announcements and Applications
Howard Hughes Medical Institute
Office of Grants and Special Programs/POST
Department CC94
4000 Jones Bridge Road
Chevy Chase, MD 20815-6789, United States of America
Telephone (301)215-8889

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
ANIMAL ECOLOGIST. One 9-month tenure-track faculty position in the Department of Zoology at the University of California, Berkeley. Specialty in community ecology, with strong quantitative and/or modeling skills and field research experience in temperate ecosystems. Ph.D. in Zoology, Animal Ecology, or related field. Detailed position description and other information available upon request. Submit curriculum vitae, transcripts, descriptions of research interests, and 5 letters of reference to: Chair, Ecologist Search Committee, Southern Illinois University at Carbondale, Carbondale, IL 62901. Review of applications will begin January 15, 1994, and continue until position is filled. The preferred starting date is August 16, 1994.

STUC is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSORS UNIVERSITY OF SOUTHERN CALIFORNIA Applications are invited for two tenure-track positions at the Assistant/Associate Professor level in the Department of Pharmacology, School of Pharmacy. Outstanding candidates with research interests in Cell Biology, Molecular Biology, Electrophysiology or Biomedical Chemistry are invited to apply. Applicants must possess a Ph.D. degree in the biological, chemical, or pharmaceutical sciences. Preference will be given to those with postdoctoral research experience and interest in active participation in a department with research focus on Drug Targeting and Drug Design. Participation in research at both the undergraduate and graduate levels is required. Review of applications will begin on December 1, 1993, but applications will be accepted until these positions are filled. Please submit a current curriculum vitae, a short statement of future research plan, and the names and addresses of three references to: Wei-Chiang Shen, Ph.D., Search Committee Chair, Department of Pharmacological Sciences, University of Southern California, John Stauffer Pharmaceutical Sciences Center, 1985 Zonal Avenue, Los Angeles, CA 90033-1086. Equal Opportunity Employer/M/F.

BIOLOGY FACULTY POSITION: Penn State Erie, Behrend College. A tenure-track ASSISTANT PROFESSOR position for fall 1994. A strong background in cell and molecular biology with a commitment to undergraduate teaching in introductory biology and advanced molecular biology required. Research interests should include one of the following: development, plant physiology, immunology, or toxicology. Development of an externally funded research program and/or teaching at both undergraduate and graduate levels is expected. Ph.D. required. Postdoctoral and teaching experience desirable. Behrend is a 4-year and graduate college offering the B.S. in biology within the Penn State University System. Send a letter of application, a statement of research goals, a curriculum vitae, and three letters of reference to: George Shinn, Biology Search Committee, Division of Science, Northeast Missouri State University, Kirksville, MO 63501. Telephone: (573) 621-3285. Completed applications will be reviewed starting 6 December 1993. Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

FACULTY POSITIONS IN VIROLOGY AND MOLECULAR IMMUNOLOGY

To strengthen and build the virology and immunology programs, the Department of Microbiology and Immunology at the University of Arkansas for Medical Sciences seeks to fill several new 12-month, tenure-track, state-supported faculty positions at ASSISTANT or ASSOCIATE PROFESSOR level. An understanding of the field will be required. Research interests should be in one or more of the following areas: transposable elements, or viral oncogenicity. The applicant must have a Ph.D. or M.D. with postdoctoral experience. The individual will be expected to develop an independent research program and participate in teaching activities within the department's graduate and medical student programs. Generous start-up funds and laboratory space in the newly finished Biomedical Research Building will be provided. Address inquiries, along with curriculum vitae, statement of present and future research interests and the names of three references to: Marie Chow, Ph.D., Department of Microbiology and Immunology, University of Arkansas for Medical Sciences, 4301 West Markham, Little Rock, AR 72205. An Equal Opportunity Employer.

Biology: Berea College: Tenure-track position in development of the Program in Anatomy at the ASSOCIATE PROFESSOR level beginning September 1994. Ph.D. required, along with demonstrated commitment to undergraduate teaching and research. Teach advanced courses in Animal Development, Human Anatomy and Physiology (nursing), and other courses for majors and non-majors. In addition, we seek an individual who will make a significant contribution to the program in Immunology and Immunocompetence and to the Department of Biology and Chemistry. The candidate will be expected to work with students at all levels, to teach in the class setting, and to design and evaluate educational materials in the field. Send a letter of application, a complete curriculum vitae, a description of research accomplishments, a brief description of plans for future research, and three letters of recommendation by January 15, 1994, to: Dr. Ralph Thompson, Biology Department, Berea College, Berea, KY 40404.

APPLICATIONS should be submitted to:

Assistant Professor in Molecular Biology

University of California, Santa Cruz

ASSISTANT PROFESSOR IN MOLECULAR BIOLOGY (RNA) Applications are invited for a tenure-track faculty position in Molecular Biology beginning fall 1994, contingent upon availability of funding. Candidate's research should focus on RNA structure and function. Position will be associated with the Department of Biology and the Markey Center for RNA Study. Minimum qualifications: Ph.D. or equivalent in Biology or a closely related field, postdoctoral experience, and demonstrated potential for university teaching. Salary: $35,900 to $38,800 (9-month basis).

Applicants should send curriculum vitae, a brief description of research and teaching interests, publications, and have letters of recommendation from three referees by December 31, 1993 to: Steve Niles, Department of Biology, Sinheimer Laboratories, University of California, Santa Cruz, CA 95064. Please refer to position #231-901 in your reply.

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

ENVIRONMENTAL BIOLOGIST

Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level beginning fall 1994 in the Biology Department of the University of Arkansas at Little Rock, a small liberal arts college in southeastern Pennsylvania. The department is seeking someone to develop a young Environmental Science Program and teach related courses, such as aquatic ecology and ecosystem studies. Successful candidate will be expected to establish internships with industry and government agencies and participate in writing grant proposals for the program. Funding involvement in the general biology or core program may be necessary. The candidate should have a Ph.D. in environmental science or related field, teaching experience at the undergraduate level, and have a desire to develop a research program with undergraduates.

Applicants should submit a letter of application, curriculum vitae, description of research interests, copies of transcripts, and three letters of reference by December 31, 1993, to:

Mrs. Martha A. Farver-Appar
Director of Personnel
Elizabethtown College
One Alpha Drive
Elizabethtown, PA 17022


ASSISTANT PROFESSOR

DEPARTMENT OF WILLIAMS COLLEGE

The Biology Department invites applications for a tenure-track Assistant Professor position in MOLECULAR GENETICS, or allied field, to teach genetics and molecular development. Successful applicant will teach one course and two laboratory sections, or an equivalent load, per semester, and is expected to establish a research program that can attract external funding and involve undergraduates. Research interests might include but are not limited to: signal transduction, cellular immunology, regulation of gene activity or the cell cycle. Postdoctoral experience and a strong academic research record are required. Please send curriculum vitae, one-page statement of teaching and research interests, and three letters of reference by December 1, 1993, to: Search Committee, Department of Biology, Williams College, Williamstown, MA 01267.

An Equal Opportunity/Affirmative Action Employer. Williams College especially welcomes applications from women and minority candidates.

FACULTY POSITION IN GENETICS, DUKE UNIVERSITY MEDICAL CENTER. Applications are invited for a tenure-track position in the Section of Genetics at Duke University Medical Center. Although we anticipate filling this position at the ASSISTANT PROFFESSOR level, we are also open to candidates for any level appointment. We are particularly interested in those individuals who are engaged in work utilizing mammalian systems or focusing on the genetics of human disease. The facilities and environment of the Section, which will become the Department of Genetics within this year, are excellent. Applications should include curriculum vitae, a brief description of research accomplishments, a brief description of plans for future research, and the names of three individuals who can serve as referees. Address applications to: Genetics Search Committee, Section of Genetics, Duke University Medical Center, Box 3054, Durham, NC 27710. Duke University Is An Equal Opportunity/Affirmative Action Employer.

BASiC ScIENTIST

A Faculty Research position at the ASSISTANT PROFESSOR level is available immediately for a basic scientist in the Department of Surgery at the University of Kentucky Medical Center. Candidates must have a Ph.D. or M.D. with substantial documented expertise in cell/molecular biology, immunology or other relevant research. Research experience in animal development and experimental animal medicine is essential. The candidate will be expected to establish and maintain an extramurally funded research laboratory. Experience in all areas of ototoxicology with an emphasis on the regulation of expression of genetic material, proteins and glycoproteins in nasal and associated chemo-sensory tissues is desired but not mandatory. Send curriculum vitae, a maximum three-page summary of research accomplishments, a statement of long-range research objectives and up to three letters of recommendation by January 10, 1994 to: Dr. John Jones, Department of Surgery, UKMC, 800 Rose Street, Lexington, KY 40506. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.
Neurodegenerative Disease Research

Cephalon is focused on neuroscience research and the development of breakthrough treatments for neurodegenerative diseases and disorders such as ALS, Alzheimer's and Narcolepsy. Our research strategy focuses on the identification and development of molecules that promote the survival of neurons that are compromised by injury, stroke and degenerative diseases.

**PHARMACOLOGISTS/MOLECULAR BIOLOGISTS, Ph.D.**

Cephalon is actively recruiting Pharmacologists/Molecular Biologists who have a Ph.D. and a minimum of 2 years post doctoral experience. Three to 5 years related experience preferred. Candidates should have a strong interest and experience in one of the following areas:

- In vivo models of neurodegeneration triggered by calcium overload. **Position Code: SC-1**
- Models of neurodegenerative diseases with emphasis on those responsive to trophic factors. **Position Code: SC-2**
- Models of cognition, experience with behavioral models for the evaluation of transgenic mice, rats or aged animals. **Position Code: SC-3**
- Strong molecular techniques with understanding of mechanisms of gene regulation and the ability to manipulate pharmacologically. **Position Code: SC-4**

**NEUROSCIENTIST/NEUROANATOMIST, Ph.D.**

This position requires a thorough working knowledge of the neuroanatomical, histochemical, cytochemical techniques used in the evaluation of neural degenerative pathologies in transgenic animals. **Position Code: SC-5**

Candidates for Ph.D. level openings should have a strong record of publications, well-developed communication skills and a demonstrated ability to effectively interact in a multi-disciplinary, collaborative environment.

**PHARMACOLOGISTS, MS/BS**

Candidates should have 1 to 5 years experience encompassing all areas of neuroscience related to neurodegenerative conditions with specific expertise in stereotaxic and behavioral techniques. **Position Code: SC-6**

Cephalon offers competitive salaries and comprehensive benefits including a 401K and stock participation. Qualified candidates are invited to send their resumes indicating Position Code and salary history to: Human Resources, CEPHALON INC., 145 Brandywine Parkway, West Chester, PA 19380-4245. Equal Opportunity Employer, M/F/D/V. Only Direct Applicants will be considered. No Phone Calls Please.
POSITIONS OPEN

TENURE-TRACK FACULTY POSITION IN MICROBIOLOGY

The School of Biological Sciences, University of Mis-
souri-Kansas City (UMKC), invites applications for a
tenure-track ASSISTANT or ASSOCIATE PROFES-
SOR of Microbiology in the Division of Cell Biology and
Biophysics. Preference will be given to candidates with
research interests in microorganisms, including phas-
ing structural or other biological aspects and with
application to one of the following systems: eukaryotic
viruses, algae, fungi, or other lower eukaryotes. Research
interests should be compatible with departmental
emphasis in molecular structure and recognition as
aligned with the School's mission.

Review of applications will begin December 6, 1993, and
continue until the position is filled. Candidates should
submit curriculum vitae with summary of present and future
research interests and request that three letters of
recommendation be sent to: CBB—Microbiology, School
of Biological Sciences, 5100 Rockhill Road, University
of Missouri, Kansas City, MO 64110–2499.

Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGY

The Department at Emory University seeks a
neurobiologist who uses molecular, cellular, develop-
mental and/or genetic approaches to study fundamental
problems in nervous system development. The appointee
is at the ASSISTANT PROFESSOR level, although an
appointment at a higher rank will be considered in exceptional
circumstances. Applicants must have a Ph.D. with a
background in any area of neurobiology with evidence
that they will develop a strong, independent research program.
It is anticipated that the appointee will participate in
Graduate Program activities in the Neuroscience Program and
will have teaching responsibilities at the undergraduate level.
Please send curriculum vitae, reprints of publications, a statement
of present and future research plans and three letters of
recommendation to: Dr. Ronald L. Calabrese, Chair Neuro-
biology Search Committee, Department of Biology,
Emory University, 1510 Clifton Road, Atlanta,
GA 30322. Review of completed applications will begin
on January 3, 1994. Emory University is an Equal Oppor-
tunity/Affirmative Action Employer.

CONSERVATION BIOLOGIST: Tenure-track AS-
SISTANT/ASSOCIATE PROFESSOR, available August
1994. Postdoctoral experience and research in plant
conservation ecology preferred, especially field or modeling
experience complementing our strengths in ecology, ge-
etics and evolution. Responsibilities include teaching
an extramurally funded research program, advising Ph.D.
and M.S. students, teaching in core biology courses and
developing a graduate specialty course. Send curriculum
vitae, statement of research/teaching interests, selected
reprints, and three letters of reference by December 1,
1993, to: Dr. R. C. Woodrufl, Chair, Department of
Biological Sciences, Bowling Green State University,
Bowling Green, OH 43403–0212. Affirmative Action/
Equal Opportunity Employer.

FACULTY POSITION

ASSISTANT/ASSOCIATE PROFESSOR, tenure-
track for July 1994. The candidate should have a strong
research program in the area of Cell Biology. The
primary teaching responsibility will be in Human Anat-
omy. Applications must be received by December 15,
1993. The Chicago Medical School is a private institu-
tion located in downtown Chicago, in a pleasant,
northern lake shore community. This is a modern,
well-equipped facility that offers an active and produc-
tive working environment. Further information and the
titles of four references should be sent to: Dr. David McCandless, Department of Cell Biology and
Anatomy, University of Chicago/The Chicago
Medical School, 3333 Green Bay Road, North Chi-
gawa, IL 60064.

UHS/CMS is an Equal Opportunity Employer.

ANATOMY/PHYSIOLOGY

The Ohio State University at Mansfield

The Department of Zoology is seeking a candidate for a tenure-track ASSISTANT or
ASSOCIATE PROFESSOR in the Mansfield Campus of the Ohio State University.
Teaching duties include undergraduate courses in human
anatomy and physiology as well as introductory biology
field courses. Research is also encouraged, but preference
will be given to applicants whose research program
can be carried out in a regional campus setting with
resources available on-site. An earned Ph.D. is required, or
will be completed by the start of the position. We seek
a Ph.D., a strong commitment to undergraduate teach-
ing and an active research program. The appointment
is contingent upon availability of funds. We welcome
applications from zoologists, especially with an inter-
est in marine biology, entomology, or herpetology.
The application package should include a statement of
research interest and teaching experience, a vita, and
three letters of recommendation.

Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ANIMAL/PLANT PHYSIOLOGY

The University of Tennessee, Knoxville (UTK), invites applications for
an Animal/Plant Physiology Assistant Professor position
in the Department of Plant, Animal, and Soil Sciences.
Applications are being accepted to fill a position beginning July 1, 1994. Successful applicants
will have a Ph.D. with a doctoral dissertation devoted
to research on the field of Animal/Plant Physiology
which is defined as the study of the effects of environ-
mental factors on plants and animals, or the study of the
techniques for altered plant or animal environments.
Responsibilities: to teach undergraduate and graduate
courses and to develop a research program in Animal/Plant Physiology. This position is
classified as tenure-track.

Send letter of application, with three letters of reference, and complete
curriculum vitae to: Dr. John S. Howard, Chair, Department of
Plant, Animal, and Soil Sciences, 480 J.L. Yarbrough
Building, University of Tennessee, Knoxville, Tennessee
37996. UTK is an Equal Employment Opportunity/Affirmative
Action Employer.

POSITIONS OPEN

ANIMAL/PLANT PHYSIOLOGY

The University of Tennessee, Knoxville (UTK), invites applications from
individuals with background in animal or plant physiology
and an interest in research in the field of Animal/Plant Physiology.
Applications are being accepted to fill a position beginning July 1, 1994. Successful applicants
will have a Ph.D. with a doctoral dissertation devoted
to research on the field of Animal/Plant Physiology
which is defined as the study of the effects of environ-
mental factors on plants and animals, or the study of the
techniques for altered plant or animal environments.
Responsibilities: to teach undergraduate and graduate
courses and to develop a research program in Animal/Plant Physiology. This position is
classified as tenure-track.

Send letter of application, with three letters of reference, and complete
curriculum vitae to: Dr. John S. Howard, Chair, Department of
Plant, Animal, and Soil Sciences, 480 J.L. Yarbrough
Building, University of Tennessee, Knoxville, Tennessee
37996. UTK is an Equal Employment Opportunity/Affirmative
Action Employer.

POSITIONS OPEN

ANIMAL/PLANT PHYSIOLOGY

The University of Tennessee, Knoxville (UTK), invites applications for
an Animal/Plant Physiology Assistant Professor position
in the Department of Plant, Animal, and Soil Sciences.
Applications are being accepted to fill a position beginning July 1, 1994. Successful applicants
will have a Ph.D. with a doctoral dissertation devoted
to research on the field of Animal/Plant Physiology
which is defined as the study of the effects of environ-
mental factors on plants and animals, or the study of the
techniques for altered plant or animal environments.
Responsibilities: to teach undergraduate and graduate
courses and to develop a research program in Animal/Plant Physiology. This position is
classified as tenure-track.

Send letter of application, with three letters of reference, and complete
curriculum vitae to: Dr. John S. Howard, Chair, Department of
Plant, Animal, and Soil Sciences, 480 J.L. Yarbrough
Building, University of Tennessee, Knoxville, Tennessee
37996. UTK is an Equal Employment Opportunity/Affirmative
Action Employer.
The Division of Research Grants of the National Institutes of Health....

Invites inquiries into special employment opportunities as administrators of study sections. Study sections, managed by Scientific Review Administrators, provide the initial review of research grant applications for technical and scientific merit. The Division of Research Grants houses most of the study sections which are responsible for the review of grant applications submitted to the National Institutes of Health.

We are seeking individuals with proven independent research experience in the health-related biological, biomedical, clinical, and behavioral sciences. Individuals must have a Ph.D. degree or equivalent. A Health Scientist Administrator Notice of Rating from the Office of Special Examiner, NIH, is required. Further information and qualification requirements can be obtained by contacting the:

Personnel Office
Division of Research Grants
National Institutes of Health
5333 Westbard Avenue
Room 438
Bethesda, MD 20892
(301) 594-7279

U.S. Citizenship Required
NIH is an Equal Opportunity Employer

Scientific Programmer

Qualified candidates must have a BS/MS in Biological Science and 3 to 5 years' programming experience in Fortran and C. Experience with UNIX and VMS operating systems and standard sequence analysis packages is required. You will work on the detection of structural motifs in amino acid sequences involving the application and modification of existing software as well as the development of new applications. Familiarity with sequence alignments and 3-D structures of proteins as well as experience with homology modeling and programming of parallel architecture is desired. Knowledge of protein structure will be helpful.

At Amgen Inc., our staff plays an integral role in maintaining the highest of standards and product excellence. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, medical/dental/life insurance plans, on-site fitness and child care facilities and three weeks vacation. If you are qualified for these positions, please FAX/mail your resume and/or curriculum vitae to: FAX: (805) 447-1985, Amgen Inc., Staffing, Job Code OA-SC-R1-001, Amgen Center, Thousand Oaks, CA 91320-1789. Please, principals only.

Postdoctoral Opportunities at Pfizer

The field of pharmaceuticals and health care is more rewarding than ever as new products create a healthier world population. As one of the leaders in this dynamic industry, Pfizer Inc, a Fortune 100 company, is committed to continuing its remarkable growth. Our primary R&D facility is located in a southeastern Connecticut shore community, giving easy access to the well known academic and cultural centers of the Northeast, and offers the attractions of a New England lifestyle.

Currently, the Central Research Division of Pfizer Inc offers two unique postdoctoral positions, each comprising a 3 year appointment that includes 18 months in our laboratories followed by 18 months in an academic laboratory.

Novel Immune G-Protein Coupled Receptors

This study, to be carried out in the Department of Molecular Genetics at Pfizer and at Yale University School of Medicine with Dr. Charles Janeway, will focus on the functional characterization of a newly identified hematopoietic G-protein coupled receptor in transgenic and knockout models. This position requires a PhD in Molecular Biology, Immunology or a related area. Publication of results is expected.

Steroid Receptor Action

This study will seek to elucidate the mechanisms of tissue specific gene activation by steroid/thyroid hormone receptors. The approach will include the identification of genes that are transcriptionally regulated by steroid hormones and thyroid hormone analogs. Candidates must have a PhD in Molecular Biology, Biochemistry or a related area. Publication of results is expected.

These positions include a stipend, medical and dental insurance, and relocation assistance. To be considered please forward your curriculum vitae and the names of three references, indicating position of interest, to: Mr. Kym Goddu, Employee Resources Associate, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.
POSITIONS OPEN

ASSISTANT PROFESSOR OF NEUROBIOLOGY, PHYSIOLOGY, AND BEHAVIOR.—The Division of Biological Sciences, University of California, Davis, invites applications and nominations for an Assistant Professor of Neurobiology, Physiology, and Behavior position in the area of animal behavior. This is a full-time, nine-month appointment. The successful candidate will coordinate a strong research program in an area of animal behavior involving physiological mechanisms. The successful candidate will be expected to teach undergraduate and graduate-level courses and to develop and maintain a strong research program in an area of animal behavior. A Ph.D. (or equivalent) is required and postdoctoral experience is desirable. The University of California, Davis, is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF EVOLUTION AND ECOLOGY.—The Division of Biological Sciences, University of California, Davis, invites applications and nominations for an Assistant Professor of Evolution and Ecology. This is a full-time, nine-month position in the Section of Evolution and Ecology within the newly reorganized Division and includes an appointment in the Agriculture Experiment Station. A Ph.D. (or equivalent) is required and postdoctoral experience is desirable. The University of California, Davis, is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF MICROBIOLOGY.—The Division of Biological Sciences, University of California, Davis, invites applications and nominations for an Assistant Professor of Microbiology. This is a full-time, nine-month appointment in the Program in Evolutionary Biology and the Division of Biological Sciences. A Ph.D. (or equivalent) is required and postdoctoral experience is desirable. The University of California, Davis, is an Equal Opportunity/Affirmative Action Employer.

EVOLUTIONARY BIOLOGIST: The Department of Cell, Molecular and Structural Biology, Northern Illinois University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. We are particularly interested in individuals who apply molecular, genetic, developmental, functional, or phylogenetic approaches to helping us understand plant structure and function from the molecular level up to the ecosystem level. Candidates must have a Ph.D. (or equivalent) and have an outstanding record of achievement in research and the ability to develop a strong research program and teach effectively at the graduate level in the Program in Evolutionary Biology. The candidate is expected to develop a strong research program in an area of molecular biology. The University of Illinois at Urbana-Champaign is an Affirmative Action/Equal Opportunity Employer.

ECOLOGIST

The Department of Zoology, University of Toronto, invites applications for a tenured-track position in Evolutionary and Behavioural Ecology at the ASSISTANT PROFESSOR level to begin July 1994. The University of Toronto is an Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITION—BIOLOGICAL OCEANOGRAPHY

The School of Oceanography at the University of Washington invites applications for a tenured-track Assistant Professor (A/B) position in oceanic biological oceanography. Preference will be given to applicants active in research on upper water-column processes involving phytoplankton or pteropods. Persons pursuing molecular, physical, chemical, or other approaches are encouraged to apply. The successful candidate is expected to develop a strong research program and teach effectively at the undergraduate and graduate level. A Ph.D. (or equivalent) is required and postdoctoral experience is desirable. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN CELL AND MOLECULAR BIOLOGY, University of Connecticut Health Center. The Department of Microbiology is seeking to fill a tenure-track position at the rank of ASSISTANT or ASSOCIATE PROFESSOR. Candidates whose research involves the application of genetic and biochemical techniques to fundamental problems of cellular and molecular biology are encouraged to apply. The University of Connecticut Health Center is an Affirmative Action/Equal Opportunity Employer.

UAB is an Equal Opportunity/Affirmative Action Employer.

The Division of Endocrinology and Metabolism, Department of Medicine, School of Medicine, University of Alabama at Birmingham, is seeking to fill a tenure-track FACULTY POSITION. Academic rank will be determined by the qualifications of the individual, but an ASSISTANT/ASSOCIATE PROFESSOR level is being sought. We are seeking a candidate with a proven ability to perform independent research, particularly in the molecular biology of cell signalling and gene regulation. An M.D. is strongly preferred. To apply, send full credentials to: Dr. Jeffrey E. Kudlow, Division of Endocrinology/Metabolism, Department of Medicine, University of Alabama at Birmingham, AL 35294-0012.
EARLY DEVELOPMENT
OF XENOPUS LAEVIS
April 6-13

Robert Grainger, University of Virginia
Hazel L. Sive, Whitehead Institute

This course will provide extensive laboratory exposure to the biology and manipulation of embryos from the frog, Xenopus laevis. The course is particularly suited for investigators who have a current training in molecular biology and knowledge of developmental biology, but have had no experience with Xenopus. Intensive laboratory sessions will be supplemented by daily lectures from experts in both experimental and molecular embryology. Six main areas will be covered: (i) care and handling of adults and embryos, (ii) stages of embryonic development and anatomy, (iii) whole mount in situ hybridization and immunocytochemistry, (iv) microinjection of eggs and oocytes, (v) micromanipulation of embryos, and (vi) induction assays. Guest lecturers have included J. Gerhart, B. Harris, R. Keller, M. Wickens and M. Whitman.

Tuition, Room and Board....$1,225

CLONING & ANALYSIS OF LARGE DNA MOLECULES
April 6-19

Hadi Abderrahim, Cell Genesys, Inc.
Bruce Birren, California Institute of Technology
Doug Vollrath, Stanford University

This course will cover the theory and practice of manipulating and cloning high molecular weight DNA. The course will focus on the use of yeast artificial chromosome (YAC), bacterial artificial chromosome (BAC) and bacteriophage P1 cloning systems for library construction and techniques of pulsed field gel electrophoresis (PFGE). Lectures and laboratory work will include an introduction to yeast genetics, the isolation and manipulation of high molecular weight DNA from a variety of sources, and preparative and analytical PFGE. YAC, BAC, and P1 clones will be produced and characterized by a number of approaches. These will include library screening, contig assembly, long range restriction mapping, and recovery of YAC ends. A variety of size standards for PFGE will be prepared and their separation on many different types of PFGE gel boxes will be compared. Lectures by outside speakers on topics of current interest will supplement the laboratory work.

Tuition, Room and Board....$1,660

PROTEIN PURIFICATION AND CHARACTERIZATION
April 6-19

Richard Burgess, University of Wisconsin-Madison
James Kadonaga, University of California, San Diego
Sue-Hwa Lin, University of Texas
Daniel R. Marshak, Cold Spring Harbor Laboratory

This course is intended for scientists who are not familiar with techniques of protein isolation and characterization. It is a rigorous program that includes laboratory work all day and a lecture with discussion session every evening. Each student will become familiar with each of the major techniques in protein purification by actually performing four separate isolations including: (i) a regulatory protein from muscle tissue; (ii) a sequence-specific, DNA-binding protein; (iii) a recombinant protein overexpressed in E. coli; and (iv) a membrane-bound receptor. A variety of bulk fractionation, electrophoretic, and chromatographic techniques will be employed including: precipitation by salts, pH and ionic polymers; ion exchange, gel filtration, hydrophobic interaction, and reverse phase chromatography; lectin affinity, oligonucleotide affinity, and immunoaffinity chromatography; polyelectrolyte gel electrophoresis, and electroblotting; high performance liquid chromatography. Procedures will be presented for solubilizing proteins from inclusion bodies and refolding them into active monomeric forms. Methods of protein characterization will be utilized including immunological and biochemical assays, peptide mapping, amino acid analysis, protein sequencing, and mass spectrometry. Emphasis will be placed on strategies of protein purification and characterization rather than on automated instrumental analysis. Guest lecturers will discuss protein structure, modifications of proteins, methodologies for protein purification and characterization, and applications of protein biochemistry to cell and molecular biology. Guest lecturers have included R. Aebersold, J. Garrels, L. Gierasch, G. Hart, A. Komberg, N. Pace, Y. Paterson, G. Rose, J. Rothman, B. Stillman and N. Tonks.

Tuition, Room and Board....$1,660

APPLICATION DEADLINE:

Application/information may be obtained from:

REGISTRAR
Cold Spring Harbor Laboratory
1 Bungtown Road
Cold Spring Harbor, NY 11724-2213
Phone: 516-367-8345
Fax: 516-367-8845
**Protein Computational Simulation and Modeling**

a) To study structure-function-dynamic relations of proteins/enzymes in order to propose experimentally-testable modifications to alter and improve functionality.  

1. **Immediate Openings for Postdoctoral Fellows**  
   Computational experience and knowledge of protein biophysical chemistry are preferred. Doctoral degree must have been awarded within last 3 years. Available immediately, but will wait for excellent candidates. Stipend begins at $36K.

2. **Permanent STAFF Opening**  
   At least 3 to 4 successful years of postdoctoral experience, or equivalent, with strong publication record. Strong computational technical skills and extensive protein biophysical chemistry experience. Available in late winter or early spring of 95/96. Reference # 94104CSP.

Interaction with experimental collaborators and publication productivity are essential. Send resume (+ email address), publication list and up to 3 significant reprints. Location: National Laboratory in Southcentral Washington State.  
Contact: Dr. Rick L. Ornstein, Molecular Science Research Center, Battelle-Pacific Northwest Laboratory, Richland, WA 99352; INTERNET: RL Ornstein @ PNLGOV.
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 leading scientist

to study the role of interactions between antigen presenting cells and T cells in the generation of allergic diseases

The successful applicant will work with an interdisciplinary team of immunologists, biochemists and molecular biologists investigating asthma. Informal enquiries should be directed to Dr. Jean-Yves Bonnafe (+41 22 706 97 23).

The Institute has a strong publication record, which the appointee will be expected to maintain. Attendance and presentation at scientific meetings is encouraged, as well as collaborative research with academic groups.

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 S.A., 14, chemin des Aulx, 1228 Plan-les-OUates, Switzerland.

WASHINGTON UNIVERSITY
Department of Anatomy and Neurobiology
FACULTY POSITION IN NEUROSCIENCE

We seek an individual taking innovative approaches to fundamental questions in molecular, cellular, or developmental neuroscience for a tenure track faculty position in the Department of Anatomy and Neurobiology at Washington University School of Medicine. The department already houses more than a dozen active research labs in neuroscience, and it is part of a much larger interdepartmental neuroscience program. The department has state-of-the-art facilities for automated RNA sequencing, confocal microscopy, image processing, as well as access to a soon-to-be-built transgenic mouse facility. Both the department and the neuroscience program offer numerous opportunities for scientific interactions and collaborations. Our focus is on an appointment at the Assistant Professor level, but an appointment at a more senior level (Associate Professor or Professor) will also be considered.

Applicants should send two copies of: a curriculum vitae, synopsis of research interests, and names, addresses, phone/fax numbers of three references to: Dr. David Van Essen, Head, Department of Anatomy and Neurobiology, Box 8108, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110, USA. Deadline for submission of applications is January 1, 1994.

Washington University is an Affirmative Action/Equal Opportunity Employer. Applications from minorities and women are encouraged.

The U.S.
Department of Energy sponsors
GLOBAL CHANGE
DISTINGUISHED POSTDOCTORAL FELLOWSHIPS

Research opportunities in technical areas related to four high priority themes: climate modeling and prediction, global water and energy cycles, global carbon cycle, and ecological systems and population dynamics.

- U.S. citizens and permanent resident aliens
- Doctoral degree received after May 31, 1991
- Tenable at various university and federal laboratories, including those of DOE and NASA
- Stipend: $35,000
- Deadline: February 15, 1994

For application materials contact:

Global Change Postdoctoral Fellowships Science/Engineering Education Division
Oak Ridge Institute for Science and Education
P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-9934

ASSISTANT PROFESSOR - SOUTHERN CALIFORNIA

We are seeking a talented candidate with the Ph.D., M.D./Ph.D., or D. degrees for the position of Assistant Professor of Physiology and Biophysics at the University of Southern California. Our targeted area of interest is molecular and/or biophysical approaches to broadly defined areas of metabolism, endocrinology and/or diabetes research. Candidates will be expected to develop an independent funded research program which will integrate with areas presently represented. The Department has over 3 million dollars in external funding, and has particular strengths in metabolism at the organismic level, as well as biophysics and molecular research in the area of ion transport, with focus on Na/K ATPase. Additional areas of interest are blood cell biophysics and reproductive endocrinology. It would be of great interest if a candidate were able to interact with and therefore coalesce these interests in the Departments. Potential areas of interest for recruitment include, but are not limited to insulin and other hormone signaling, glucose transporter proteins, molecular regulation of intracellular pathways, biophysics of aorta cell function, immunology of Type 1 diabetes, and/or molecular genetics of Type 1 or Type 2 diabetes mellitus. The University of Southern California is a major research institution with extensive collaboration opportunities with basic and clinical departments, as well as the Institute for Genetic Medicine, Norris Cancer Center, and Doheny Eye Institute. Interested candidates should send a Curriculum Vitae, and 3 names who may be contacted for letters of reference to Richard N. Bergman, Ph.D., Chair, Department of Physiology and Biophysics, USC Medical School, MMR630, 1333 San Pablo Street, Los Angeles, CA 90033.
POSITIONS OPEN

FACULTY POSITION AT
UCSD SCHOOL OF MEDICINE

ASSISTANT or ASSOCIATE PROFESSOR—level position is available effective May 1, 1994, in a newly organized Division of Cellular and Molecular Medicine at the University of California San Diego School of Medicine.

Applicants are expected to have: a successful record of research in cellular and molecular biology, including neurobiology; establish an active individual research program; welcome collaboration with faculty of the Division or the School; and participate actively in teaching and training of medical and graduate students. The Assistant Professor position requires an M.D., Ph.D., or M.D./Ph.D. degree, at least two years of postdoctoral training, and a strong record of well-organized research. The Associate Professor position is expected to have already achieved an outstanding record in their field of research.

Send application, curriculum vitae, list of publications, summary of research planned for immediate future, and list of six or seven potential referees, before December 15, 1993, to: George E. Palade, M.D., Dean for Scientific Affairs, UCSD School of Medicine, 9500 Gilman Drive, Room 1315, La Jolla, CA 92039-0602. Affirmative Action/Equal Opportunity Employer.

VASSAR COLLEGE

ASSISTANT OR ASSOCIATE PROFESSOR

Eukaryotic Geneticist—Biological Department, Vassar College, seeks geneticist with research interests in developmental genetics, cellular genetics, or related areas who is committed to undergraduate and graduate education. Four teaching assignments, dual-career options, tenure-track assistant professor position at the rank of assistant or associate professor beginning August 1994. Excellent laboratory facilities and start-up support are available. Ph.D. required and postdoctoral work and teaching experience are desirable. The successful candidate will be expected to develop an independent research program and to engage students in research.

Send curriculum vitae, a description of current and planned research, a statement of teaching interests, three letters of reference to: B. Suter, Chair, Biological Department, Vassar College, Poughkeepsie, N.Y. 12601 by December 1, 1993. Vassar encourages women and minorities to apply. Affirmative Action/Equal Opportunity Employer.

BIOLOGIST

(Anatomist/Organismic Biologist)

Simpson College seeks an ASSISTANT PROFESSOR of biology (tenure-track) for fall 1994. Ability to teach histology and/or ecology desirable. The position requires a strong teaching record and a commitment to Biology of Organisms plus specialty courses required. Preferred areas of additional training include developmental biology, ecological genetics, or another area in the life sciences. Ph.D. required; A.B.D.s considered. Beginning date is negotiable. The department seeks candidates with a strong commitment to teaching and research in a liberal arts setting.

Send curriculum vitae, a letter of interest, and three letters of reference to: Dr. Joe K. Moody, Chair, Department of Biology and Environmental Science, Simpson College, 701 North C Street, Indianola, IA 50125. Deadline: December 15, 1993. Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

THE JOHNS HOPKINS UNIVERSITY

DEPARTMENT OF BIOLOGY

SCHOOL OF ARTS AND SCIENCES

Applications are invited for a tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR level in the areas of Molecular, Cellular and Developmental Genetics. Successful applicants are expected to generate creative and productive research programs that will interface with the diverse scientific interests of the department. Applicants are expected to participate in the teaching of Genetics at the undergraduate and graduate levels. Send curriculum vitae, list of publications, a statement of research interests and plans, and arrange to have three letters of reference forwarded before December 1, 1993, to: Chairman, Department of Biology, The Johns Hopkins University, Baltimore, MD 21218. Minority and female candidates are encouraged to apply. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

Nutrition/Dietetics

Food Science and Human Nutrition Department, Institute of Food and Agricultural Sciences, University of Florida; 12-month, tenure-track. Qualifications include an earned doctoral degree in dietetics. A.D.A. Registered Dietitian (R.D.); clinical or postdoctoral experience preferred. Duties and responsibilities include: teaching and assisting in the administration of the undergraduate (ComEd MS, AP4) dietetics programs, and development of a research program that complements an existing department area of interest (clinical and/or community nutrition, food science and technology). Application requirements: curriculum vitae, transcripts sent directly to: Dr. J. Andrew Wood, Director, by February 10, 1994. Additional information from the above announcement, send statement outlining career goals and teaching, research, and professional interests: (refer to position FSHN-1117-Kaiser). All information must be submitted by February 14, 1994, to: Dr. Harry S. Siren, Chair, Search and Screen Committee, Food Science and Human Nutrition Department, IFAS, University of Florida, P.O. Box 110370, Gainesville, FL 32611-0370; Telephone: (904) 392-9919, Extension 116; FAX: (904) 392-9467. The University of Florida is an Equal Opportunity/Affirmative Action Institution and encourages applications from females and minorities.

TERRESTRIAL ANIMAL ECOLOGIST

Tenure-track ASSISTANT or ASSOCIATE PROFESSOR position in the ecological study of animal interactions at the population or community level. Research should include a combination of innovative theoretical, experimental and/or modeling approaches. Preference will be given to individuals who have demonstrated creative work involving fieldwork and data analysis. The Department of Biology is currently searching for an associate professor position in Developmental Biology, and the two areas are complementary. The position is only available if the area of Developmental Biology is not yet filled. Send curriculum vitae, a statement of research interest and capability, and three letters of recommendation to: Dr. W.A. Thompson, Department of Biology, University of Oklahoma, Norman, OK 73091. An Equal Opportunity/Affirmative Action Employer. OU has a policy of being responsive to needs of dual-career couples.

ASSISTANT/ASSOCIATE PROFESSORS

NEUROSCIENCE

The Department of Anatomy and the Neuroscience Center at Loyola University Medical Center seek to identify two neuroscience faculty. A Ph.D. and three years of postdoctoral experience are required. Scientists who study receptor, neurotransmitter, or channel mechanisms in the nervous system to develop novel research directions. Salary level is competitive with academic institutions and includes teaching responsibilities.

Send curriculum vitae, a statement of research interests, and names of three references to: D. R. Ranney Mize, Department of Anatomy, Loyola Medical Center, 2001 South First Street, New Lenox, IL 60456. Application deadline is December 15, 1993. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

The Department of Medicine, Division of Nephrology, is seeking a full-time, tenure-track assistant professor in nephrology. The candidate must have a Ph.D. in cell physiology, biochemistry, or related field, or an M.D. in nephrology or related field. The position requires a minimal commitment of 20 percent of time to teaching and research. The candidate must be able to interact successfully with the faculty and students of the nephrology division. Send curriculum vitae, a letter of interest, and the names of three references to: Dr. W. A. Molitoris, Division of Nephrology, Department of Medicine, The Johns Hopkins Hospital, 600 North Wolfe Street, Baltimore, MD 21287. Minority and female candidates are encouraged to apply. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR

The Department of Medicine, Division of Nephrology, is seeking an associate professor position in the area of cell biology, starting January 1, 1994. Candidates must have a Ph.D. in cell physiology, biochemistry, or related field. Experience in mammalian cell culture and new research directions are required. Experience with flow cytometry, imaging, gene cloning and gene expression analysis is highly desirable. Send curriculum vitae, a letter of interest, and the names of three references to: Dr. R. W. Knoll, Department of Medicine, The Johns Hopkins Hospital, 600 North Wolfe Street, Baltimore, MD 21287. Minority and female candidates are encouraged to apply. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

POISONS OPEN

CELLULAR ENDOCRINOLOGIST

University of Arizona

The Departments of Physiology and Obstetrics and Gynecology (OB/Gyn) are jointly seeking a tenure-track ASSISTANT PROFESSOR. Preference will be given to applicants with research expertise in reproductive endocrinology, using the ovarian biologic system. The position is expected to begin January 1, 1995. Applicants are expected to have: a successful record of research in cellular and molecular biology, including neuroscience; establish an active individual research program; welcome collaboration with faculty of the Division of the School of Medicine; and participate actively in teaching and training of medical and graduate students. The Assistant Professor position requires an M.D., Ph.D., or M.D./Ph.D. degree, at least two years of postdoctoral training, and a strong record of well-organized research. The Associate Professor position is expected to have already achieved an outstanding record in their field of research.

Send application, curriculum vitae, list of publications, summary of research planned for immediate future, and list of six or seven potential referees, before December 15, 1993, to: Dr. R. E. Molitinos, Department of Physiology, University of Arizona, 1515 East University Boulevard, Tucson, AZ 85724. To insure consideration, applications should be submitted by January 15, 1994; however, applications will be considered until the position is filled. The University of Arizona is an Affirmative Action/Equal Opportunity Employer and encourages women, men, and individuals with disabilities to apply.

Boston University seeks an ASSOCIATE or FULL PROFESSOR starting fall 1994 for its graduate Department of Cognitive and Neural Systems. This department offers an integrated curriculum of psychological, neuroscience, cognitive science, and computer science and provides a setting for the study of the information processing methods and the evolution of intelligence. The position requires a Ph.D. or equivalent degree with research experience in cognitive science and intelligence (theoretical and experimental) and work in at least one of the following areas: artificial intelligence, connectionist cognitive science, computer vision and image processing, visual cognition, spatial orientation, adaptive pattern recognition, and cognitive neuroscience. Applicants must have a well-established research program and recent publications. The successful candidate must have a strong research program, demonstrate an ability to attract external funding, and have experience teaching and guiding doctoral research. Applicants are expected to have at least three letters of recommendation from individuals who can attest to the candidate's teaching experience. Applications are due to: Dr. Peter M. Buxey, Cellular Endocrinologist Search Committee, Department of Physiology, College of Medicine, University of Arizona, Tucson, AZ 85724. Consideration will begin December 15, 1993. Boston University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, BIOCHEMISTRY

Coe College, a selective private liberal arts college of about 1100 students, is inviting applications for a tenure-track position in the area of biochemistry, to begin in fall 1994. The position is available to be filled at the assistant professor level. Coe College's program is accredited by the American Chemical Society. Candidates will be expected to have a Ph.D. in biochemistry or a closely related discipline and experience in teaching and carrying out research with undergraduates, and will be expected to teach in the areas of biochemistry, molecular biology, and general chemistry. Submit curriculum vitae, undergraduate and graduate transcripts, and a statement of teaching and research interests, and arrange to have at least three letters of reference sent to: Dr. Wendy Dunn, Associate Dean for Academic Affairs, Coe College, Cedar Rapids, IA 52402. Application deadline is December 1, 1993. As an Affirmative Action/Equal Opportunity Employer, Coe College is especially interested in identifying women and minority candidates.

Virginia Commonwealth University's Department of Pharmacology and Toxicology seeks a tenure-track ASSOCIATE PROFESSOR, with a Ph.D. or equivalent degree and four or more years of relevant postdoctoral experience. Compensation and rank will be commensurate with the candidate's qualifications and experience. Send curriculum vitae and names of three references to: Dr. D. J. Sitren, Department of Pharmacology and Toxicology, Virginia Commonwealth University, Richmond, VA 23229. Position description available upon request. VCU is an Equal Opportunity/Affirmative Action Employer and encourages women, men, and individuals with disabilities to apply.
At Sandoz Pharmaceuticals Corporation, research is the tool by which we gain the knowledge needed to improve the lives of thousands across the country and around the world. That is why we have committed substantial resources to expanding our Research Institute and its state-of-the-art technologies. Our developments are the result of research conducted by professionals who specialize in many different fields.

**Senior Research Scientist**  
**Atherosclerosis**  
The Atherosclerosis and Vascular Biology research group is seeking a Senior Research Scientist with expertise in thrombosis drug discovery. The successful candidate will help organize an expanding interdisciplinary team of biologists, animal modelers, and medicinal chemists in approaches which will explore opportunities for future therapeutic intervention in the area of thrombosis. A Ph.D. degree in pharmacology or biochemistry in an area related to vascular biology plus a minimum of 5 years of experience beyond postdoctoral training in thrombosis research is required. The candidate must have hands-on experience in both in vitro and in vivo thrombosis modeling and will be responsible for team development and leadership.  
**Position #2594.**

**Postdoctoral Fellow**  
**Diabetes**  
The Diabetes Research Department seeks a recent graduate with a Ph.D. in the life sciences to work in our physiology section. Practical expertise in mammalian signal transduction pathways and a working knowledge of carbohydrate and fat metabolism is required. Experience in insulin signal transduction and/or intercellular calcium activated processes is desirable. Excellent communication skills and the ability to work as part of a multidisciplinary team of scientists are essential. This position offers the opportunity to learn, work and publish in an exciting and well supported research environment. Postdoctoral appointments are for one year but are extendable for a second year by mutual agreement.  
**Position #PD-019.**

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in northern New Jersey. For consideration, please refer to the position number of interest and forward your curriculum vitae and the names and addresses of three references to:

**SANDOZ PHARMACEUTICALS CORP**  
SRI Human Resources  
Building 122/1  
East Hanover, NJ 07936

An Equal Opportunity Employer M/F/D/V

---

**SANDOZ**  
bringing research to life
Chair of Pharmacology
(Ref: 93/94-1)

Applications are invited for the Chair of Pharmacology, following the retirement of Professor C.W. Ogle. Appointment will normally be made on a three-year fixed term contract, tenable from July 1, 1994.

The University reserves the right not to fill the Chair or to fill the Chair by invitation or to make an appointment at a lower level.

Annual salary [non-superannuable but attracting 15% (taxable) terminal gratuity] will be within the professorial range, of which the minimum is HK$836,580 and the average is HK$1,034,760 (approx. US$108,647 - US$134,384 respectively; US Dollar equivalents as at October 7, 1993) with starting salary depending on qualifications and experience. At current rates, salaries tax will not exceed 15% of gross income. Housing at a charge of 7.5% of salary, children's education allowances, leave, and medical benefits are provided.

Further particulars and application forms may be obtained from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (fax: (852) 559 2058; E-mail: APPTUNIT@HKUVM1.HKU.HK). Closes 14 January 1994.

ECOLOGIST

The California Coastal Commission seeks a scientist for a long-term marine resource mitigation program consisting primarily of a 150-acre wetland restoration project and a 300-acre artificial reef project. Mitigation monitoring will continue for approximately 30 years. The position will be located in San Francisco at the Coastal Commission's headquarters.

The ecologist will evaluate designs for the mitigation projects, monitor their performance, and evaluate their effectiveness. Together with other project ecologists and consultants, the successful candidate will coordinate and oversee the scientific program. Duties include designing a long-term sampling program to determine whether the mitigation projects meet specific performance standards, evaluating contractor reports, and providing advice on scientific issues. The ecologist will work closely with Coastal Commission staff and a scientific advisory panel to achieve the project's objectives.

Candidates must have a doctorate in ecology or a related field and postdoctoral or professional experience. Preference will be given to candidates with a strong scientific background, good quantitative and writing skills, demonstrated project management abilities, and the ability to work productively on an interdisciplinary team.

Competitive salary, commensurate with experience, and excellent benefits. Submit curriculum vitae, selected reprints, and three letters of reference to: Chris Parry, California Coastal Commission, 45 Fremont Street, Suite 2000, San Francisco, CA 94105-2219. Please include fax numbers and e-mail addresses, if possible. Deadline for applications is January 7, 1994.

Women and minorities are strongly encouraged to apply for this unique opportunity.

SONGS
San Onofre Nuclear Generating Station • Mitigation Monitoring Program

DIRECTOR-BIOLOGY PROGRAM
ORGANISMAL BIOLOGIST

CSU San Marcos, the newest campus of the California State University system located near San Diego, invites applications for appointment as Program Director to lead its expanding Biology Program. Our Program occupies new teaching and research facilities in a region rich with research activities in biotechnology and marine biology. Candidates should have a Ph.D. and qualifications commensurate with appointment at the Full Professor level. We seek a person with demonstrated leadership ability who will actively represent and promote the Program in the University and community. Applicants should have a strong commitment to undergraduate teaching and to a research program involving undergraduate and graduate students. The appointee would chair the Program, offer courses in their area of specialty, contribute to the teaching of lower division biology, and participate in the growth of our research programs. The Program currently has strengths in molecular, developmental, and marine biology, and is seeking an organistmal biologist who uses modern, experimental approaches to questions in either: (i) animal physiology, and able to teach a broad-based core course in comparative physiology; or (ii) marine invertebrate biology, with the ability to teach a broad-based core course in ecology. Applicants should send a letter of application, CV, statements of research and teaching interests and accomplishments, and a discussion of administrative philosophy, along with the names, addresses, and phone numbers of at least three references to: Biology Search Committee, CSUSM, San Marcos, CA 92096 (FAX 619-752-4111). Consideration of applications will begin on December 15, 1993 and continue until a suitable candidate is found. CSU San Marcos is an Affirmative Action/Equal Opportunity Employer. The University has a strong commitment to the principles of diversity and seeks a broad spectrum of candidates including women, members of minority groups, and people with disabilities.

MOLECULAR NEUROBIOLOGIST ASSISTANT PROFESSOR
Brown University
Department of Neuroscience

Tenure track faculty position for individual with expertise in molecular neurobiology with research that will complement the department's interests in sensory and motor systems, learning and memory, synaptic plasticity, and neuronal function. Candidates must have a Ph.D. or M.D. and Postdoctoral experience. Must show evidence of ability to establish an independent, externally funded research program and demonstrate the potential for excellence in teaching. Brown has active graduate programs in Neuroscience and Molecular & Cell Biology.

Applications will be reviewed beginning December 1, 1993 and continue until a successful candidate has been identified or the search closed. Send a curriculum vitae, a set of representative reprints, a concise description of research interests and goals, and arrange for three letters of reference to be sent to: Dr. John Donoghue, Search Committee, Department of Neuroscience, Division of Biology & Medicine, Box 343, Brown University, Providence, RI 02912. We encourage applications from women and minority candidates. Brown is an Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST, Ph.D. and/or M.D.

Neose Pharmaceuticals, Inc. is a biotechnology organization dedicated to the development of novel therapeutic oligosaccharides as inhibitors of binding of pathogenic microorganisms to mammalian cells. We currently seek an experienced Microbiologist to direct pre-clinical research program.

This position requires at least 5 years post-doctoral research experience. Familiarity with infectious diseases and their pathogens is desired.

Neose is located in Horsham, PA, a suburb of Philadelphia. We offer a competitive compensation package in a dynamic atmosphere where employees have the opportunity to participate in and benefit from the company's success. Please send C.V. to: Personnel Manager, Neose Pharmaceuticals, Inc., 102 Witmer Road, Horsham, PA 19044. EOE.
Senior Research Chemist/ Formulations

Lederle Laboratories, a subsidiary of American Cyanamid's Medical Research Division, has an opportunity available immediately for a senior-level Chemist to be responsible for the technology transfer, scale-up and validation for parenteral dosage forms from the pilot lab through to production sites. The selected candidate will also interface between our formulation, production and QC areas.

To qualify, applicants should have either: a Ph.D. and 3-5 years' experience in parenteral development; A Master's degree and 8+ years' experience; OR a Bachelor's degree and 10+ years' experience.

We offer a competitive salary and benefits package. Applicants should send their resume, along with salary requirements, to: Lederle Laboratories, Medical Research Division, Dept. 9637, 401 Middletown Road, Pearl River, NY 10965. We are an equal opportunity employer.

Discover the spirit of innovation.

DEAN OF THE COLLEGE OF SCIENCE
The University of Texas at El Paso

The University of Texas at El Paso, the largest comprehensive university in the United States with a majority Hispanic student population, invites applications for the position of Dean of the College of Science. One of six academic colleges in the University, the College of Science is comprised of five academic departments, Biological Sciences, Chemistry, Geology, Mathematical Sciences, and Physics, and offers a wide variety of baccalaureate and master's degrees and doctoral programs.

The College's 90+ tenure and tenure-track faculty with strong orientation in teaching and research serve over 1,400 science majors.

The Dean reports to the Vice President for Academic Affairs and Research, and is responsible for budgeting, long-range planning, and day-to-day administration of the College. An important leadership role will include strategic planning and submitting major proposals for extramural funding, liaison with external funding agencies, successful development of additional Ph.D. programs, development of community outreach and strong educational initiatives, and leadership of existing research centers, all in support of the College's increasing excellence in teaching, research, and community service consistent with the vision of the University.

Candidates must have an earned doctorate and be eligible for a faculty appointment as a full professor in an existing academic discipline, relevant administrative experience, a consistent record of scholarly activities including university teaching experience and research, and demonstrated success in obtaining extramural funding. A review of applicants will begin on November 1, 1993. Please forward applications and a list of five current references with names, addresses, telephone numbers to Dr. Jack Bestol, Search Committee Chair, College of Science, U.T. El Paso, El Paso, Texas 79968. The University does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services.

TWO MOLECULAR GENETICS FACULTY POSITIONS UNIVERSITY OF MISSOURI-COLUMBIA HEALTH SCIENCES CENTER

The Department of Biochemistry and the Division of Molecular Genetics in the Department of Child Health invite applications for two tenure-track faculty positions at the Assistant Professor level. Candidates should have an excellent academic background with postdoctoral training and a strong research program in human molecular genetics. The candidates will be expected to establish a program of basic molecular research, to train graduate students and medical genetics post-doctoral fellows, and to be involved in some teaching of medical and graduate students. One position requires the candidate be Board Certified in Molecular Genetics through The American Board of Medical Genetics. Both individuals will be jointly appointed in Biochemistry and Child Health. The Health Sciences Center and contiguous University offer an exciting multidisciplinary Molecular Biology Program with outstanding Core Facilities while Medical Genetics' large clinical service will provide the molecular geneticist with immediate access to numerous research opportunities.

All applications must be received by January 1, 1994 in order to receive full consideration. Please send a curriculum vitae, research plan and have three letters of reference sent to:

Judith H. Miles, M.D., Ph.D. Chair, Search Committee Division of Medical Genetics University of Missouri Health Sciences Center Columbia, MO 65212 314-882-6991

The University of Missouri is an Equal Opportunity/Affirmative Action Employer, complies with the American Disabilities Act and encourages applications from qualified women and minorities.

Scientists & Chemists

Emisphere Technologies, Inc., a publicly held company, is developing its patented oral drug delivery technology. Career opportunities include:

PEPTIDE CHEMIST - Candidates must have a Ph.D. degree and a minimum of 5 years hands-on experience in the area of peptide chemistry, solution and solid phase peptide synthesis, and the structure identification of peptide oligomers. Experience with molecular modeling software a plus.

SCIENTIST/CARDIOVASCULAR - Ph.D. with 3+ years in cardiovascular research as it deals with pharmaceutical development. Experience working with heparin and/or coagulation factors required.

SR. FORMULATIONS SCIENTIST - Ph.D. with 7-10 years experience. Responsible for program direction of formulating Emisphere's carriers for delivery within the GI tract. Experience with oral suspensions and emulsions preferred. Experience with regulatory submissions desirable.

FORMULATIONS SCIENTIST - Ph.D. with 0-3 years experience or MS with 5-7 years experience working in the area of pharmaceutical formulations for oral drug delivery. Send resume to:

Ms. Sally Love
Emisphere Technologies, Inc.
15 Skyline Drive
Hawthorne, New York 10532
FAX (914) 347-7493

Miles, Inc., Pharmaceutical Division, is looking for two individuals with 3-4 years' postdoctoral experience in biochemistry/enzymology. The ideal candidate will be experienced in the purification and characterization of proteins and enzymes involved in intracellular signalling cascades and be willing to apply that expertise to the study of bone metabolism. A knowledge of the isolation, culture and characterization of bone cells and their precursors is desirable, but not necessary.

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. AABZ, 400 Morgan Lane, West Haven, CT 06516.

An Equal Opportunity Employer M/F/D/V
**POSITIONS OPEN**

**ASSISTANT/ASSOCIATE PROFESSOR POPULATION/EVOLUTIONARY GENETICS**

The Department of Biology, San Francisco State University, invites applications for a tenure-track position in population, conservation or evolutionary genetics starting fall 1994. A Ph.D. is required and postdoctoral experience desirable. We seek an individual who is thoroughly conversant with research in population genetics and the analysis of molecular data. The successful candidate is expected to (i) offer courses in population genetics, conservation, and evolution at the graduate and undergraduate level, (ii) establish a research program, (iii) interact with the program in conservation biology, and (iv) supervise M.A. students. We are especially interested in applicants dedicated to excellence in both teaching and research. Send letter of application, curriculum vitae, statement of teaching and research experiences, up to three letters of reference, and manuscripts, and three letters of reference by 15 December 1993 to: Dr. G. A. Antipa, Chair, Hiring Committee, Department of Biology, San Francisco State University, San Francisco, CA 94132. Women and minority candidates are especially urged to apply. SFUSU is an Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITION**

**ANIMAL OR PLANT ECOLoGIST—The University of Oregon invites applications for a tenure-track faculty position as ASSISTANT PROFESSOR in the Department of Biology. The appointment will be in theEcology Division, which has strengths in population and quantitative genetics, evolution, micro-}

**ASSISTANT/ASSOCIATE PROFESSOR BIOENGINEERING/NEUROSCIENCE**

The Department of Biomedical Engineering at the University of Southern California announces a new tenure-track faculty position in cellular/systems neuroscience to be available starting fall 1993. We seek an individual capable of establishing and maintaining an externally funded research program that includes rigorous quantitative approaches to fundamental aspects of the nervous system, and of teaching courses at the graduate and undergraduate levels. A combined theoretical and experimental approach is preferred, though applicants with purely theoretical research programs will be considered.

**POSITIONS OPEN**

**MSU-DOE PLANT RESEARCH LABORATORY**

The MSU-DOE Plant Research Laboratory has a tenure-track faculty position available at the ASSISTANT level. Research opportunities are being sought from researchers who are working toward the mechanistic understanding of fundamental questions in plant and modern experimental approaches of biochemistry, genetics, or cell and molecular biology. The Plant Research Laboratory is operated with support from the U.S. Department of Energy and provides a stimulating environment for research in the search in the plant sciences. Faculty members are jointly appointed in an appropriate academic department. Generous laboratory facilities and support as well as continuing research funding will be provided. Applicants should have postdoctoral research experience with demonstrated productivity and evidence of potential for independent research. In order to assure consideration, applications should be received preferentially by December 6, 1993. Applications, along with curriculum vitae, description of research accomplishments and future interests, and three letters of recommendation, should be sent to: Dr. Kenneth Keegstra, Director, MSU-DOE Plant Research Laboratory, Michigan State University, East Lansing, MI 48824. Michigan State University is an Equal Opportunity/Affirmative Action Employer.

**DIRECTOR**

The Neuropsychiatric Research Institute (NRI) invites applications and nominations for a senior position as the Neuropsychiatric Research Institute’s (NRI) DIRECTOR. The DIRECTOR will lead and develop research programs in neuroscience. NRI is an independent, nonprofit, clinical and basic science research institution, located in Seattle, Washington. It has a long history of amicable cooperation with the University of Washington, the University of North Dakota School of Medicine and affiliated hospitals, and with North Dakota State University where excellent opportunities exist for collaborative work on collaborative research programs and the potential for faculty appointments and teaching activity. Minimum qualification requirements include an M.D. and/or Ph.D. degree with demonstrated excellence in research and leadership and the ability to develop research programs in neuroscience. Applicants should submit, prior to December 1, 1993, curriculum vitae, statements of current and planned research interests and letters from at least three references to: Dr. John W. Vennes, Interim President, Neuropsychiatric Research Institute, 1208 Pacific Avenue, South, Fargo, ND 58103. For information call: (701) 239-1600. NRI is an Equal Opportunity and Affirmative Action Employer.

The San Diego Natural History Museum is seeking an ASSISTANT CURATOR of both VASCULAR PLANT SYSTEMATICS and VERTE-}

**BROWD COMMUNITY COLLEGE**

**BIOTECHNOLOGY INSTRUCTOR**

Master’s degree required. Minimum of eighteen graduate semester hours in Biology. Teaching duties to include General Biology, Anatomy and Physiology, and accompanying labs. Résumés must be received before 3:00 p.m., Thursday, December 15, 1994, to: BROWD COMMUNITY COLLEGE, Human Resources Department, 225 East Las Olas Boulevard, Ft. Lauderdale, FL 33301, or call 1-800-682-3646 for an official employment application.

*Equal Access/Equal Opportunity Institution.*
A major grant from the Lucille P. Markey Charitable Trust is providing funding for a continuing search for several faculty positions in molecular neurobiology, with an emphasis upon molecular mechanisms of neural development and plasticity.

We plan to fill one or more tenure track faculty positions (rank open) for fall 1994 and additional positions in the next several years. Candidates will be appointed primarily in the Departments of Cell and Structural Biology or Biochemistry, although appointments may be made in other departments. Substantial funds are available for laboratory start-up and research. The University has a strong interdisciplinary Neuroscience Program with strengths in neural development and plasticity and growing strength in cellular and molecular neuroscience. In addition to the interdisciplinary resources of the Beckman Institute, the University of Illinois is home to the NSF-funded National Center for Supercomputing Applications, and a Biotechnology Center that provides a number of subsidized services including production of oligonucleotides, peptides and monoclonal antibodies, molecular graphics, fluorescence activated sorting, protein and DNA sequencing and transgenic animal facilities.

Salary is commensurate with experience and qualifications. Minorities and women are particularly encouraged to apply. Applications (vita, 1-2 representative reprints, and a statement of research interests) and three letters of recommendation should be sent to:

Byron Kemper, Chair, Molecular Neuroscience Search Committee
School of Life Sciences, 393 Morrill Hall, 505 S. Goodwin Ave.
Urbana, IL 61801 Tel. (217) 333-3044

This is an ongoing search and applications received after the deadline may receive consideration. However, to ensure full consideration for fall 1994 hiring, applications should be received by January 15, 1994.

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

POSTDOCTORAL POSITIONS
Cell and Molecular Biology of Reproduction

Postdoctoral positions are available at the Worcester Foundation for Experimental Biology to study cellular and molecular aspects of reproduction. These positions are supported by an NIH training grant applicable to US. citizens/permanent residents. The faculty and their research interests are:


Harvey Florman, Ph.D.: Regulation of sperm ion channels; mechanisms of exocytosis; zona pellucida structure and function.

Daniel Kilpatrick, Ph.D.: Regulation of spermatogenic cell development and differentiation at the transcriptional level; male germ cell-specific trans-acting factors.

Jose Lemos, Ph.D.: The role of second messengers in steroidogenesis in Leydig cells.

John McCracken, Ph.D.: Molecular and cellular mechanisms controlling the reproductive cycle.

Clare O'Connor, Ph.D.: Protein modifications during gametogenesis; mechanism of oocyte maturation.

George Witman, Ph.D.: Control of sperm motility; sperm maturation and hyperactivation; phosphorylation; structure and function of dynein.

David Wolf, Ph.D.: Biophysics of fertilization and the acrosome reaction in mammalian sperm.

The Worcester Foundation for Experimental Biology offers excellent facilities and a stimulating environment for postdoctoral study. The Foundation is a private, non-profit research institute, located on a 100-acre campus in Shrewsbury, Massachusetts, 35 miles west of Boston. Please send curriculum vitae and names of three references to the faculty member(s) of interest, c/o Human Resources, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545, USA.

An Affirmative Action/Equal Opportunity Employer M/F/H
Structural Biologist

A structural biology unit is being established with intramural funding to conduct a research program within the NIH intramural program. In addition to molecular biology, the local research environment includes protein crystallography, nuclear magnetic resonance studies of macromolecules and time-resolved spectroscopy. Applicants for this tenure track position should have a record of achievement in some area of structural biology relating structure to function. Salary commensurate with credentials and research experience.

Qualified candidates should send curriculum vitae and names and addresses of three references to:

David R. Davies
Laboratory of Molecular Biology
NIDDK, NIH
Bldg. 5, Room 338
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-4295
(301) 496-0201 Fax

NIH is an Equal Opportunity Employer

AQUATIC ECOLOGY
Cooperative Research Units

The U.S. Fish and Wildlife Service invites applications for a Research Fishery Biologist (GS-482-11/12) to serve as the Assistant Unit Leader for Fisheries at the Ohio Cooperative Fish and Wildlife Research Unit. The successful candidate will serve at The Ohio State University, Columbus, OH, where the Unit is located, and will receive a courtesy faculty appointment in the Department of Zoology of the College of Biological Sciences. This position will become part of the National Biological Survey.

Assistant Leader duties include establishing a strong research program, teaching at the graduate level, and providing technical assistance to resource managers on fisheries resource issues.

Requirements for the position include a Ph.D. in aquatic ecology, fishery management, aquatic conservation biology, or closely related field, a record of research productivity in community ecology, population dynamics, population genetics, or population modeling, and an ability and commitment to teach.

The Division of Cooperative Research will pay up to $10,000 for associated moving expenses for new appointees to the Federal Service.

For general information about the Cooperative Unit, The Ohio State University, or the Department of Zoology, contact the University's Representative to the Unit Coordinating Committee: Dr. Peter W. Pappas, Professor and Chairperson, Department of Zoology; telephone: (614) 292-8036; FAX: (614) 292-2030; E-mail: PAPPAS.3@OSU.EDU

TO APPLY: Send a complete and current Standard Form 171 accompanied by a Supervisor Appraisal, a separate statement addressing each quality ranking factor, and a copy of college transcripts to: U.S. Fish and Wildlife Service, ATTN: Dorothy Easley, Division of Personnel Management, Mail Stop 725 - Arlington Square, 18th and C Street NW, Washington, DC; telephone (703) 358-1771; TDD (703) 358-2298. Applications must reference the Ohio Assistant Leader Position. Applications must be postmarked no later than November 22, 1993.

The U.S. Fish and Wildlife Service is an Equal Opportunity Employer.

PROVOST

Duke University invites applications and nominations for the position of Provost. The Provost at Duke is the chief academic officer of the University and reports directly to the President.

Please send nominations or expressions of interest along with a complete curriculum vitae, if available, to: Chair, Provost Search Committee, Duke University, Box 90030, Durham, NC 27708-0030. Screening of candidates will begin on December 1, 1993 and continue until appointment is made.

Duke University
Duke University is An Equal Opportunity/Affirmative Action Employer
**Biochromatographer/ Biochemist**

J.T. Baker is a Total Quality company and has been a leader in the laboratory chemicals business since 1904 with products of superior quality, purity and performance. We are headquartered in Phillipsburg, NJ, directly across the Delaware River from the Lehigh Valley of Pennsylvania (Allentown/Bethlehem/Easton). Business operations are worldwide.

We are seeking a highly motivated candidate for the position of “Biochromatographer/Biochemist.” The area of focus is our biochromatography product line. Key responsibilities include the development of new chromatographic supports for the purification and analysis of proteins, developing methods for key applications, assisting Marketing, Sales, and Operations with technical input, preparing and presenting seminars, and providing technical support to customers.

Candidates should have an MS or PhD in Biochemistry or a related discipline, preferably with some experience with the chromatographic separation of proteins (either work-related or academic). The ideal candidate will have experience developing a variety of chromatographic methods, excellent oral and written communication skills, and be willing to travel.

J.T. Baker offers a competitive salary and comprehensive benefits package including incentive savings, dental and tuition reimbursement plans. In confidence, interested candidates should send their resume and salary requirements, along with a cover letter which is responsive to each requirement to:

**Human Resources, J.T. Baker Inc.**, 222 Red School Lane, Phillipsburg, NJ 08865. Direct Applications Only - No Telephone Calls. Resume must be received by October 22, 1993. Equal Opportunity Employer, MF.

---

**Wayne State University**

Chair, Department of Biological Sciences

Wayne State University invites applications for the position of Professor and Chair of the Department of Biological Sciences in the newly formed College of Sciences. There are currently 28 faculty members in the Department and at least six additional full-time appointments are anticipated. Over 160 graduate students are enrolled in the Ph.D. and M.S. programs in Biological Sciences and in the M.S. program in Molecular Biotechnology. The Department is housed in over 65,000 square feet of research space, including a recently completed six story research building. There are strong ties between the Department and the Wayne State University School of Medicine and the new interdisciplinary Center for Molecular Medicine and Genetics. Wayne State University, located in Detroit’s Cultural Center, is an urban research University serving 34,000 students.

We seek an academic leader to enhance the research and teaching programs of the Department. Candidates should have a distinguished record of scholarly activity, an internationally recognized research program, and a strong commitment to graduate and undergraduate education in the life sciences. The incoming chair will have an exceptional opportunity to enhance significantly the research and teaching programs of the Department. In order to be assured of full consideration, applications should be received by December 15, 1993. Letters of application, curriculum vitae, and names of at least 4 references should be sent to:

Professor Robert H. Rownd, Chair
Biological Sciences Chair Search Committee
1360 Biological Sciences Building
Wayne State University, Detroit, MI 48202
Wayne State University is an Equal Opportunity/Affirmative Action Employer.

---

**DIRECTOR, DIVISION OF VIRAL PRODUCTS**

Center for Biologies Evaluation and Research
Office of Vaccines Research and Review
Food and Drug Administration

The Food and Drug Administration is seeking an outstanding scientist to lead the Division of Viral Products within the Center for Biologies Evaluation and Research, Office of Vaccines Research and Review, located on the NIH campus in Bethesda, Maryland. The position is in the Senior Executive Service with a salary of $92,900 to $107,300.

The Director will be expected to oversee a broad scientific program in the area of human viral diseases and their prevention. The Director will manage a staff of 55 scientists which is responsible for the evaluation of viral vaccines and related products assuring their safety and efficacy. The Division of Viral Products is expected to grow substantially in the near future. The Director will be responsible for developing new programs and recruiting highly qualified scientists to run them. The Director will have the opportunity to continue his/her research program as well as to develop the programs of the division in a well funded research environment that includes modern laboratories, accredited small animal and primate facilities and the advantages of the NIH research community.

Applicants must have strong leadership and managerial abilities in directing complex scientific programs, ability to work effectively with high-level government officials, the scientific and academic communities, medical and health related organizations and representatives of regulated industries, particularly in relation to the prevention of infectious diseases.

Applicants must have previous executive level managerial experience in the area of scientific administration. An M.D. degree with board certification of a Ph.D. in a related science with a national/international reputation in virology or a related area is desired.

Interested candidates should send their curriculum vitae to: Jim Keady, Office of Human Resources Management, Food and Drug Administration, Parklawn Building, Room 7D-32, 5600 Fishers Lane, Rockville, MD 20857. For further information, call Mr. Keady collect at (301) 443-7725.

This position is also available to current Commissioned Officers of the U.S. Public Health Service, or by former officers willing to rejoin the Corps.

Applications will be accepted until December 31, 1993.

An Equal Opportunity Employer
FDA is Smoke-Free

---

The Virus & Cell Biology Department at Merck Research Laboratories, a world leader in pharmaceutical and vaccine research, has two career opportunities for qualified candidates.

**Senior Research Virologist**

The successful candidate must possess a Ph.D. in virology or the equivalent with postdoctoral experience in the growth and characterization of viruses. Experience in multiple virus systems and molecular genetics with knowledge of medical or biochemical virology is highly desirable.

The focus of this position will be to develop and optimize growth of viral vaccines and apply novel assays to measure immunity to viruses. The candidate will also lead the effort to develop improved stabilizers for viral vaccines. Experience in molecular, biochemical or biophysical characterization of viruses is also desired.

**Molecular Biologist**

The successful candidate must possess a BS/MS in molecular biology, microbiology, or equivalent and related experience in a wide variety of techniques associated with cloning and expressing genes in bacteria and cell culture. Experience in techniques such as cloning, sequencing, PCR, hybridization, cell culture transfection, immunoblot analysis, and reporter gene assays is highly desirable.

The focus of this position will be to join a team of scientists involved in the search and development of novel vaccines. The candidate will be involved in cloning and studying expression of viral genes in bacteria and mammalian cells.

Excellent salary and benefits programs accompany these positions at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with references, transcripts and cover letter to **Personal Manager, Ad 6-17, MRL Human Resources - W42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. EOE/AA/VH/Employer**.
POSITIONS OPEN

ACS EMINENT SCHOLAR

FACULTY POSITION

CANCER CELL/MOLECULAR BIOLOGY

University of Florida College of Medicine

Applications and nominations are invited for the American Cancer Society/Roger E. Koger Eminent Scholar Chair in Basic Cancer Research. The successful candidate for this faculty position will hold a Ph.D. or M.D. degree, and she/he will have demonstrated excellence in research on the cellular and/or molecular biology of cancer. This includes gene transfer, gene therapy, cell or cell line selection, molecular genetics, chromosomal/structural biology, oncogene molecular biology, Commitments for laboratory and office space, start-up funding, as well as other resources will assume a Roger Koger-sustained trajectory to international eminence. She/he can also play a significant role in efforts to build a major cancer research center at the University of Florida. This university department within the College of Medicine will be based upon the candidate’s accomplishments and field of interest. The closing date for nomination or application (including curriculum vitae, statement of research goals, current funding, and three letters of reference) is November 15, 1993, with a start date of January 2, 1994. The salary is negotiable. All correspondence to:

Daniel L. Purich, Chairman
Koger Scholar Search Advisory Committee
Department of Biochemistry & Molecular Biology
University of Florida College of Medicine
P.O. Box 100245
Gainesville, FL 32610-0245


THE UNIVERSITY OF MICHIGAN

SCHOOL OF DENTISTRY

TISSUE ENGINEERING POSITION

The University of Michigan School of Dentistry invites applications for a full-time tenure-track faculty position in the Department of Oral Medicine, Pathology, and Surgery. We are seeking an individual who has demonstrated competence in cell biology, developmental biology, chemical engineering or biomedical engineering to participate in a multidisciplinary program in tissue engineering. Candidates must have a Ph.D. and appropriate postdoctoral or equivalent research experience. The successful candidate will be expected to develop and maintain a high-quality externally funded research program. Research in biomedical engineering discipline will be encouraged. Salary and academic rank commensurate with experience. The University of Michigan is an Equal Opportunity Employer and members of minority groups are strongly encouraged to apply. Please send curriculum vitae, names of three references, and a brief description of research interests by January 1, 1994, to: Peter J. Polverini, D.D.S., D.M.Sc., Chairman, Search Committee, University of Michigan School of Dentistry, 1111 North University, Room 5217, Ann Arbor, MI 48109-1078; Telephone: (313) 936-2191, FAX: (313) 764-2469.

TENURE-TRACK FACULTY RESEARCH POSITIONS IN MOLECULAR AND CELLULAR PATHOLOGY

The Department of Pathology, University of Alabama at Birmingham, is seeking individuals for positions at the faculty level who are interested in joining an active and growing group of investigators in basic research and graduate teaching. Applicants should have a Ph.D. or M.D. degree and be expected to develop independently funded research programs. Special consideration will be given to individuals with experience in cellular and molecular biology, signal transduction, and the desire to interact with other investigators and a willingness to participate in graduate and postdoctoral training. Level of the position will be determined by the candidate’s background. Please send detailed curriculum vitae including description of research, recent reprints and names of three references to: Dr. Michael E. Resnick, Director, Division of Molecular and Cellular Pathology, Department of Pathology, University of Alabama at Birmingham, Box 1370, Birmingham, AL 35294-0019. UAB is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and minorities.

POSITIONS OPEN

LIFE COLLEGE

ANATOMIST—EDUCATION

Openings in Anatomy Department are available December 1993. These are full- and part-time teaching positions with full benefits. Ph.D. or M.D. degree is preferred. Interested applicants please send résumé, three letters of reference, a curriculum vitae, and academic credentials to:

Dr. Samuel Demons, Chair
Department of Anatomy
Northwestern University
2012 Rand Road
Evans, IL 60117

1269 Barclay Circle
Marietta, GA 30060

Life College is an Equal Employment Opportunity Employer.

RESEARCH FACULTY POSITION IN MOLECULAR PATHOGENESIS

The Public Health Research Institute (PHRI) invites applications for a position as a member of its research faculty at either the junior or senior level. Candidates must have training and experience of the highest quality and a research program addressing fundamental questions on the mechanisms of pathogenesis in eukaryotic or prokaryotic systems. The research program must be funded or, in the case of a junior applicant, to be funded. The successful candidate is expected to develop and maintain a high-quality externally funded research program. Research in the Basic Science Department at the Public Health Research Institute is supported by the National Institute of Health and the National Cancer Institute. The successful candidate will be expected to develop and maintain a high-quality externally funded research program. Research in molecular biology and molecular genetics of disease-causing organisms is encouraged. The PHRI offers an excellent research environment, administrative facilities, start-up funds, and a generous benefits package. Salary is negotiable. Candidates should submit curriculum vitae, a statement of research interests and accomplishments, and a list of at least three references. Review of applications will begin in December 1993, but applications will be accepted until the position is filled.

Applications should be sent to: Dr. Joseph Mindich, Chair, Recruitment Committee, Public Health Research Institute, 455 First Avenue, New York, NY 10016.

The PHRI is an Equal Employment Opportunity Employer.

FACULTY POSITION

Sexually Transmitted Diseases (STD’s)

The Department of Microbiology, the University of Texas Health Science Center at San Antonio, seeks to hire a tenure-track faculty member with appointment with interest in the molecular pathogenesis and immunology of STD’s. Agents of particular interest are human papillomavirus and chlamydia, although individuals with experience in research achievement in other STDS’s are encouraged to apply. The successful candidate is expected to develop/maintain innovative research programs in departmental teaching activities. This is an exceptional opportunity to join our expanding department committed to excellence in research and teaching, and is located in a desirable academic environment. Applicants should submit curriculum vitae, a statement of current and future research goals, and arrange to send three letters of reference by January 24, 1994, to: Dr. Joel B. Baseman, Professor and Chairman, Department of Microbiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78294-7758. The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Karolinska Institute, Stockholm, Sweden

Available for studies of the structure and function of MHC class I and II molecules. The focus of the group is on the function of class I molecules in CTL and NK recognition, Biosynthesis and intracellular transport, cell surface expression and MHC class I interaction with CTL and NK cells are studied to achieve this goal. Experimental models include studies of somatic cell mutants, class I transgenic mice, and antibody blocking. Experience in molecular biology, biochemistry or cellular immunology is desired. Review of applications will begin November 15, 1993, and will continue until the position is filled. Send curriculum vitae, brief description of research experience, and names of three references to: Dr. U. Hjollund, Center for Cancer Research, Massachusetts Institute of Technology, 77 Massachusetts Avenue, E17-322, Cambridge, MA 02139-4307, USA.

VICE PRESIDENT FOR RESEARCH PROGRAMS

The University of Texas Health Science Center at San Antonio invites applications for the position of VICE PRESIDENT FOR RESEARCH PROGRAMS. The successful candidate will be responsible for developing and executing a comprehensive research development program. The Vice President is a member of the University’s senior executive team. The position encompasses the leadership and governance for the university’s research mission. Applicants should have a minimum of five years of progressive academic or research leadership experience at the level of director or institute head or equivalent. The ideal candidate will have extensive research experience in a broad range of scientific disciplines and demonstrate research accomplishments of high distinction. Applicants should have a Ph.D. or M.D. degree with substantial research accomplishments and a record of achievement in research administration. Candidates must have experience in the development of research programs, identification of research funding opportunities, and management of research grants. Applicants are expected to have a strong track record of engagement with professional organizations and to have demonstrated the ability to develop and maintain strong collaborative partnerships. Applications are invited from candidates who have demonstrated success in building and leading a world-class research enterprise. The successful candidate will serve as an advisor to the Vice President for Academic Affairs/Dean of the Graduate School. The University of Texas Health Science Center at San Antonio is interested in candidates who can demonstrate a commitment to diversity and inclusion. For more information about the opportunities and qualifications, please see the web site: http://www.uthscsa.edu/academic/VPforResearch.html. Applications must be submitted by November 30, 1993. Applications must include a curriculum vitae, a letter describing qualifications and experience, and the names and addresses of at least five references.

POSTDOCTORAL POSITION

TROPICAL BOTANIST/ETHNOBOTANIST

World Wildlife Fund’s Conservation Science Program seeks a tropical botanist/ethnobotanist. Responsibilities are to provide expertise and leadership in tropical botany, conduct research on tropical plant utilization; assist in design, monitoring, and evaluation of biodiversity conservation efforts in extractive reserves; and coordinate activities related to a scientific program at WWF by collaborating with regional staff in field projects and through publications, lectures, and public outreach. The successful applicant must hold a doctoral degree in botany, plant ecology, ethnobotany, or a related resource management (and have at least 5 years of experience in tropical countries). Fluency in Spanish, French, or another second language is preferred. Salary and benefits are appropriate to nonprofit sector will be provided. Please forward curriculum vitae, a description of research goals, relevant publications, and the names, addresses, telephone and FAX numbers of three references to: World Wildlife Fund, Human Resources Department 344F, 1250 24th Street, N.W., Washington, DC 20037.

POSTDOCTORAL POSITION

In Molecular and Developmental Neurobiology at the University of Maryland School of Medicine, 685 West Baltimore Street, Room 4-018, Baltimore, MD 21201. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

In Molecular and Developmental Neurobiology available to study several novel homeobox genes that are expressed in the brain. The studies focus on the regulation of expression of these genes and their role in determining cellular phenotypes in the mammalian brain. Experience in molecular biology, cell biology or neuroscience required. Send curriculum vitae and the names and telephone numbers of three references to: Dr. Robert F. Bell, University of Maryland School of Medicine, 665 West Baltimore Street, Room 4-018, Baltimore, MD 21201. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

In Molecular and Developmental Neurobiology available immediately to either study regulation of gene expression during the early development of the nervous system, including protein genes or to work on studies where the genetic basis of certain pulmonary diseases is being explored. Preference is given to applicants experienced in recombinant DNA techniques or who have an interest in genetics, but applications from motivated applicants without experience are encouraged. Send curriculum vitae to: Joanna Flores, Ph.D., Department of Cellular and Molecular Physiology, Pennsylvania State University College of Medicine, 500 University Drive, Hershey, PA 17033. Telephone: 717/531-6972. We are an Equal Opportunity/Affirmative Action Employer and encourage minority and female applicants to apply.

POSTDOCTORAL POSITION

In Cellular Neurophysiology to study neuronal circuitry and synaptic plasticity in the electrosensory lobe of an electric fish. The work will be done in an in vivo slice preparation. Experience with in vivo preparations and patch clamp recording is desirable. Please send curriculum vitae, brief statement of long-term research interests, and names and addresses of three references to: Dr. Curtis Bell, B. S. Dow Neurological Sciences Institute, Legacy Health Systems, 1120 N.W. 20th Avenue, Portland, OR 97209.

POSTDOCTORAL POSITION

In Molecular Biology of Retroviruses. A position is available to study the molecular pathways of pathogenesis of mouse or human retroviruses. Experience in Molecular Biology or Virology is preferred.

Please send curriculum vitae and names of at least two references to: Dr. Jack Lenz, Department of Molecular Genetics, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461.

Equal Opportunity Employer.
PHARMACOLOGIST

Alteon, Inc., an expanding research and development pharmaceutical company involved in the discovery and development of innovative technologies for treating diabetic complications is seeking a highly motivated pharmacologist with broad experience in whole animal experimentation to join our Biochemistry Department.

Responsibilities include performing and supervising experimental research involving metabolic modeling, surgical procedures as well as radiotelemetric measurements.

The successful candidate should possess a Ph.D. in pharmacology or physiology and should have greater than four years industry experience in the study of animal models of Type I or Type II diabetes mellitus.

We offer a competitive salary and excellent benefits in a small, rapidly growing company. Send resume and salary history to Christina Blicharz, Alteon Inc., 165 Ludlow Avenue, Northvale, New Jersey 07647. We are an Equal Opportunity Employer

ALTEON, INC.

-------------------

FACULTY POSITION: CANCER RESEARCH - TRANSGENIC MICE

The Department of Molecular Genetics at the Ohio State University, in collaboration with the OSU Comprehensive Cancer Center, is searching for a tenure-track faculty member at the Assistant, Associate or Full Professor level. We are interested in highly qualified applicants who are conducting basic investigations in the general field of cancer research and who use transgenic mice as the experimental system. The faculty member will be housed in a spacious, newly renovated laboratory in the Biological Sciences Building and will have excellent access to the recently completed transgenic mouse facility located at the OSU Biotechnology Center. The transgenic facility includes state-of-the-art equipment as well as technical support.

A generous recruiting package is available, including a highly competitive, hard money salary, as well as substantial funds for equipment purchase and initial operating expenses. The Ohio State University is in the process of a major expansion in Molecular Biology and Biotechnology, and a substantial number of additional positions are anticipated in the future. Research with transgenic mice is one of the areas targeted for expansion.

The Ohio State University is the flagship institution of the state's higher education system. It is located in the state capital, Columbus, which is a growing, yet highly affordable metropolitan area of about 1.3 million people. Columbus has been ranked by Newsweek as one the country's best places to live and work.

Applications should include a detailed curriculum vitae, a description of research experience, a statement of the nature of the planned independent research program, and the name, address and telephone number of each of four scientists who have agreed to serve as references. Applications will be accepted until suitable candidates are hired, but recruiting is scheduled to begin in earnest by January 1994. Information about our Department can be obtained by calling our office at 614-292-8084.

Applications should be sent to: Dr. Lee Johnson, Molecular Genetics Search, Department of Molecular Genetics, The Ohio State University, 484 W. 12th Avenue, Columbus, OH 43210.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era Veterans, disabled veterans and the disabled are encouraged to apply.

--------------------

Our entrepreneurial environment naturally evolves as a function of our mission: the development of recombinant DNA-based human therapeutics, utilizing the principles of cellular and molecular biology...through rapid product development and innovative commercialization strategies. We currently have a career opportunity in our Process Development Group for a:

RESEARCH SCIENTIST

Reporting to the Laboratory Head, Cell Culture Process Development, you will be responsible for providing biological insight and input into the development of scalable processes with a variety of mammalian cell lines. The selected candidate will research cell characteristics and culture conditions to determine optimum growth environments for successful scale-up and will develop novel serum-free media formulations for growth and culture of suspension- and anchorage-dependent mammalian cells. You will serve as the resident "cell expert" within the Process Development Group. Additionally, you will supervise two Research Associates; assists the Vector Development Group in the identification of cell lines that exhibit the most desirable scale-up characteristics; and provide guidance to the Analytical Group in the development of new assays.

Candidates must have a Ph.D. in biological sciences with emphasis on cell physiology, biochemistry and/or molecular biology desirable. Industrial experience in Process Development and a research background involving several different mammalian cells and culture conditions are required.

At Amgen, our staff plays an integral role in maintaining the highest of standards and product excellence. We offer a highly competitive compensation and benefits package. If you’re interested in this position, please FAX your resume to FAX: (805) 447-1985, Amgen Inc., Staffing, Job Code OA-SC-LD-006, Amgen Center, Thousand Oaks, CA 91320-1789. Please, principals only.

AMGEN

We are an equal opportunity employer M/F/D/V.
ASSISTANT PROFESSOR
MICROBIOLOGY

The Department of Microbiology at the University of Illinois at Urbana-Champaign seeks candidates for a full-time tenure track position at the Assistant Professor level. Applicants should have a Ph.D. degree, postdoctoral experience, and show exceptional promise in developing an active research program in Microbiology. Preference will be given to applicants with research interests in the physiology, biochemistry, or molecular genetics of microorganisms that further expand the Department's breadth of microbial diversity. Responsibilities include teaching undergraduate and graduate students. The search is ongoing until an adequate applicant pool is received. To ensure full consideration, applications should be received by December 15, 1993. Interviews may be conducted before the closing date, but no final decision will be made before that time.

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

DIRECTOR
Neuromusculoskeletal Institute

The UMDNJ-School of Osteopathic Medicine is currently recruiting for a clinical scientist as the Director of our Neuromusculoskeletal Institute (NMI), reporting to the Dean. The NMI will be a focal point for the UMDNJ-School of Osteopathic Medicine's academic, clinical, and research efforts in osteopathic medicine. Basic science research projects will include the study of neuromuscular function and neuromuscular biology, non-invasive studies using MRI technology to determine changes in muscle metabolism under a variety of conditions, biomechanical research, the study of pain and biomaterials research. The Institute will bring under one roof, faculty from all departments, creating a uniquely osteopathic/ambulatory clinical research center.

We seek the following qualifications for this position:

1. A national reputation in Clinical Research;
2. Specialty training in the field of neurological, neuromuscular, or musculoskeletal disorders with a focus in one or more of the systems;
3. If a physician, Board Certification in one of the applicable specialties required;
4. Significant clinical, research, and administrative experience including:
   - Ability and experience as a science and administrative leader for an interdisciplinary group of clinicians and basic science investigators.
   - Budget management and control.
   - Program planning and grantmanship.

Send curriculum vitae to: R. Michael Gallagher, D.O., Vice Dean, UMDNJ-School of Osteopathic Medicine, One Medical Center Dr., Ste. 305, Stratford, New Jersey 08084. Closing date for applications is January 31, 1994.

The UMDNJ, New Jersey's University of the Health Sciences, is an Affirmative Action/Equal Employment Opportunity Employer. M/F/D/V, and a member of the University Health System of New Jersey.

Harvard Medical School-McLean Hospital Alcohol and Drug Abuse Research Center

Applicants are invited to apply for post-doctoral research training (National Research Service Award) at the Alcohol and Drug Abuse Research Center on the grounds of McLean and at the Harvard Medical School.

The Alcohol and Drug Abuse Research Center is a multidisciplinary research program which includes basic, clinical and treatment research. Trainees may participate in research on the molecular and behavioral pharmacology of substance abuse; the neuroendocrine consequences of cocaine, heroin and alcohol abuse; the effects of drug abuse on the brain as assessed by brain imaging techniques (MRT, MRS, SPECT, and EEG); the evaluation of the safety and effectiveness of new pharmacotherapies for the treatment of drug abuse. The research program emphasizes analysis of the antecedents of drug abuse by women. McLean Hospital is an affiliate of the Harvard Medical School and the Massachusetts General Hospital and is located in Belmont, MA, a suburb of Boston. Salary is commensurate with experience (PGY 1 to PGY 7).

Please send a curriculum vitae, reprints of some recent papers, a brief statement about research interests and goals, and the names of three references (including complete addresses and telephone numbers) to: Jack H. Mendelson, Professor of Psychiatry (Neuroscience) or Dr. Nancy K. Mello, Professor of Psychology (Neuroscience), Co-Directors, Alcohol and Drug Abuse Research Center, McLean Hospital, 115 Mill Street, Belmont, MA 02178.

McLean Hospital is an equal opportunity/affirmative action employer.

Dean of the College of Natural Resources
Office of the Provost, Professional Schools and Colleges
200 California Hall, University of California, Berkeley, CA 94720
Phone: 510-642-6474 FAX: 510-642-3359

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

College of Natural Resources

The University of California at Berkeley invites applications or nominations for the position of Dean of the College of Natural Resources. The position is available on July 1, 1994. The College of Natural Resources has been reorganized recently into four departments of instruction: Plant Biology; Environmental Science, Policy and Management; Agricultural and Resource Economics and Policy; and Nutritional Sciences and the newly organized research unit: the Institute for Natural Resource Systems. These new units constitute a multi-disciplinary program designed to combine the natural and social sciences to address the complex issues of interaction between society and the natural environment; to conduct fundamental research on biological problems related to agriculture and natural resources; to promote sustainable use of natural resources; and to provide the foundation for responsible and socially acceptable management of the urban and rural environments. The College is now positioned to respond to the challenges and opportunities posed by the rapid growth and transformation of urbanized society, the development of bio-technology, and the evolving nature of environmental and resource management.

The College has an interdisciplinary faculty of 115 members and an enrollment of about 300 graduate and 700 undergraduate students. It enjoys interaction with campus programs in the natural and social sciences and engineering, and with other institutions in the world. Through the Division of Agriculture and Natural Resources of the University the College also has ties with strong programs at the Davis and Riverside campuses of the University of California. The Dean of the College acts as the Associate Director of the California Agricultural Experiment Station under whose auspices substantial research is conducted.

We are seeking for an individual with a longstanding record of scholarly achievements in teaching and research, commensurate with appointment to full professorship at the University, and a proven record of successful management and consensus building. We seek an exceptional Dean who will take on the challenge of leading the College through the implementation of a new organizational structure and academic plan, while maintaining a long standing record of excellence in instruction and research. The many opportunities of this position include a period of faculty growth and renewal, a Cooperative Extension program, and a Capital Fund campaign already underway.

Applications or nominations should be sent, together with the names and addresses of three references, to the following address no later than January 15, 1994.

Chair, Search Committee for
Dean of the College of Natural Resources
200 California Hall, University of California, Berkeley, CA 94720
Phone: 510-642-6474 FAX: 510-642-3359

The University of California is an Equal Opportunity, Affirmative Action Employer.
THE 1994 LOUISA GROSS HORWITZ PRIZE

The 1994 Louisa Gross Horwitz Prize was established under the will of the late S. Gross Horwitz through a bequest to Columbia University, and is named to honor the donor's mother. Louisa Gross Horwitz was the daughter of Dr. Samuel David Gross (1805-1889), a prominent surgeon of Philadelphia, and author of the outstanding "Systems of Surgery," who served as president of the American Medical Association.

Each year, since its inception in 1967, Columbia University has awarded the Louisa Gross Horwitz Prize for outstanding basic research in the fields of Biology or Biochemistry. The purpose of this award is to honor a scientific investigator, or group of investigators, whose contributions to knowledge in either of these fields is deemed worthy of special recognition.

The prize consists of an honorarium and a citation which are awarded at a special presentation event. Unless otherwise recommended by the Prize Committee, the prize is awarded annually. The 1993 awardees were Professors Nicole Le Douarin, Professor au Collège de France and Directeur de l'Institut d'Embryologie Cellulaire et Moléculaire du CNRS et du Collège de France, and Donald Metcalf, Research Professor of Cancer Biology at the University of Melbourne, and Head of the Cancer Research Laboratory at The Walter and Eliza Hall Institute of Medical Research.

QUALIFICATIONS FOR THE AWARD

The Prize Committee recognizes no geographical limitations. The prize may be awarded to an individual or a group. When the prize is awarded to a group, the honorarium will be divided among the recipients, but each member will receive a citation. Preference will be given to work done in the recent past.

Prospective recipients should be nominated to the Chairman of the Louisa Gross Horwitz Prize Committee, Dr. Steven Siegelbaum. Nomination letters should include:
1. A summary, preferably less than 500 words, of the research on which this nomination is based.
2. A summary, preferably less than 500 words, of the significance of this research in the fields of biology or biochemistry.
3. A brief biographical sketch of the nominee, including positions held and awards received by the nominee.
4. A listing of up to ten of the nominee's most significant publications relating to the research noted under Item 1.
5. A copy of the nominee's curriculum vitae.

Send to: Dr. Steven Siegelbaum, Chairman of the Louisa Gross Horwitz Prize Committee, Office of the Vice President for Health Sciences and Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, New York, New York 10032.

Deadline for receipt of nominations is January 7, 1994.

GEORGETOWN UNIVERSITY
MEDICAL CENTER

GEORGETOWN UNIVERSITY MEDICAL CENTER is seeking an internationally known scientist to lead a major initiative in brain and computer-based networks at the newly established Georgetown Program in Cognitive and Computational Sciences, as well as both senior and junior level faculty to support this project.

The Program Director will serve as the chief administrative and scientific leader of this federally supported research center. The ideal candidate will have demonstrated productivity and expertise in the Program's primary research areas of cognitive neuroscience (from molecular biology to in vivo electrophysiology), brain imaging, and artificial networks. Experience in coordinating a diverse group of neurobiologists and computational physicists, as well as ability to develop extramural support are required. Knowledge of medicine and/or biomedical applications would be valuable.

Faculty candidates should exhibit demonstrated expertise, productivity and originality in the Program's areas of interest; e.g., vertebrate electrophysiology, brain imaging, neuronal biophysics, mathematical modeling of artificial networks, physical chemistry, biochemistry, molecular and cell biology, and pharmacology. Successful procurement of funding for innovative research directions is sought. GEORGETOWN UNIVERSITY offers an excellent salary and benefits package.

Review of applications will begin immediately. Send detailed Curriculum Vitae and names of at least three references (with both telephone and fax number) to: Georgetown Program in Cognitive and Computational Sciences, The Office of the Dean of Research and Graduate Education, Georgetown University Medical Center, Medical Dental Building (Rm. NW103), 3900 Reservoir Road, NW, Washington, DC 20007.

An Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

POSTDOCTORAL POSITION—Available January 1994. Projects to include the molecular and cellular biology of lymphocyte and cytotoxic cell lines, and the involvement of mammalian cell division and differentiation. Experience in biochemistry, protein purification or yeast molecular genetics are highly desirable. Please send curriculum vitae to: Roger M. Bernat, Department of Biochemistry, University of Alabama in Birmingham, 1720 19th Street N., Birmingham, AL 35294. Equal opportunity employer.

POSTDOCTORAL POSITION available for Research Scientist with recent Ph.D. in biochemistry, molecular biology, cell biology, or related area. Work will involve studies of the interaction of the B-cell receptor with surface antigens and macrophage-derived cytokines. Experience in molecular biology, cell biology and/or immunology is highly desirable. Position is initially for two years. Please send curriculum vitae to Dr. N. S. Golden, Department of Microbiology and Immunology, University of Alabama in Birmingham, Birmingham, AL 35294. Equal opportunity employer.

POSTDOCTORAL POSITION available for qualified individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSTDOCTORAL POSITION available for qualified individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSTDOCTORAL POSITION available for individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSTDOCTORAL POSITION available for individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSITIONS OPEN

POSTDOCTORAL POSITION Available to investigate genes involved in nervous system development using transgenic mouse and embryonic stem cell technologies. Expertise in neuroscience, cell biology, or molecular biology required. Please send curriculum vitae and three references to: Dr. K. J. Kappen Department of Neurobiology and Pharmacology, University of Alabama in Birmingham, 1720 19th Street N., Birmingham, AL 35294. Equal opportunity employer.

POSTDOCTORAL POSITION available for individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSTDOCTORAL POSITION available for individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSTDOCTORAL POSITION available for individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSITIONS OPEN

POSTDOCTORAL POSITION available to study pharmacokinetics and mechanisms of drug action against Trypanosoma cruzi in vitro. Send curriculum vitae to: Dr. R. E. Link, Department of Pharmacology, University of South Carolina, PO Box 17048, Columbia, SC 29208. Equal opportunity employer.

POSTDOCTORAL POSITION available to study pharmacokinetics and mechanisms of drug action against Trypanosoma cruzi in vitro. Send curriculum vitae to: Dr. R. E. Link, Department of Pharmacology, University of South Carolina, PO Box 17048, Columbia, SC 29208. Equal opportunity employer.

POSITIONS OPEN

POSTDOCTORAL POSITION—Available January 1994. Projects to include the molecular and cellular biology of lymphocyte and cytotoxic cell lines, and the involvement of mammalian cell division and differentiation. Experience in biochemistry, protein purification or yeast molecular genetics are highly desirable. Please send curriculum vitae to: Roger M. Bernat, Department of Biochemistry, University of Alabama in Birmingham, 1720 19th Street N., Birmingham, AL 35294. Equal opportunity employer.

POSTDOCTORAL POSITION available for Research Scientist with recent Ph.D. in biochemistry, molecular biology, cell biology, or related area. Work will involve studies of the interaction of the B-cell receptor with surface antigens and macrophage-derived cytokines. Experience in molecular biology, cell biology and/or immunology is highly desirable. Position is initially for two years. Please send curriculum vitae to Dr. N. S. Golden, Department of Microbiology and Immunology, University of Alabama in Birmingham, Birmingham, AL 35294. Equal opportunity employer.

POSTDOCTORAL POSITION available for qualified individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSTDOCTORAL POSITION available for qualified individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSTDOCTORAL POSITION available for qualified individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSTDOCTORAL POSITION available for qualified individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.

POSITIONS OPEN

A POSTDOCTORAL POSITION available for qualified individuals interested in the molecular biology of HIV-1, including transduction and recombination, virus-host interactions, and viral replication. Applicants must have a Ph.D. or M.D. in molecular biology or related area. Please send curriculum vitae and three references to: Dr. E. J. Roederer, Department of Microbiology, Vanderbilt University Medical School, Nashville, TN 37232. Equal opportunity employer.
DEAN, COLLEGE OF NATURAL SCIENCES AND MATHEMATICS
CALIFORNIA STATE UNIVERSITY, LONG BEACH

California State University, Long Beach, invites applications and nominations for Dean, College of Natural Sciences and Mathematics. The college has five departments: Biological Sciences, Chemistry and Biochemistry, Geological Sciences, Mathematics, and Physics and Astronomy.

Qualifications include eligibility for appointment as a tenured professor in one of the College's academic departments, administrative experience, experience in developing external funds, ability to build consensus, commitment to faculty governance, sensitivity to student needs in a multicultural educational environment. For a more detailed announcement, contact Linda Sumpter at (310) 985-2333 or fax (310) 985-1680.

All applications must include a curriculum vitae, a letter of interest, and a list of at least three professional references including names, addresses, and telephone numbers. All inquiries, nominations and applications will be held in confidence. Nominations are also invited. Review of applications will begin on December 15, 1993. Position will remain open until filled. Proposed effective date of appointment is on or about July 1, 1994.

Submit applications and nominations to:
Professor Simon George, Chair
Dean Search Committee
Office of the Vice President for Academic Affairs
California State University, Long Beach
Long Beach, California 90840

CSULB is an Equal Opportunity/ Affirmative Action, Title IX Employer

SECRETARY
SMITHSONIAN INSTITUTION

The Board of Regents of the Smithsonian Institution invites applications and nominations for the position of Secretary of the Institution.

As the chief executive officer, the Secretary is responsible for the development and oversight of a wide variety of activities, including research, publishing, exhibition, and educational programs in the sciences, arts, and history. Attendant responsibilities include supervision of museum, laboratory, and library operations; fund raising and public relations; support services; and development of auxiliary activities and educational outreach. The Secretary administers an annual operating budget of over $600 million in Federal appropriations, grants and contracts, and non-appropriated Trust Funds, directing approximately 4,700 Civil Service staff, 2,100 non-Federal employees, and 5,000 volunteers in 16 museums and galleries, a zoological park, and several major scientific research installations (including an astrophysical observatory, tropical biology station, and estuarine research center). The Secretary represents the Institution before the Congress, the Executive Branch, professional societies, educational institutions, foundations and granting organizations, over two million Associate members, and the public.

Candidates should have a Ph.D. or equivalent in a field of study relevant to the Smithsonian. Additionally, candidates should have a record of superior scholarly accomplishment, a facility for written and oral communication, relevant administrative experience, and exceptional leadership ability.

Nominations and applications, together with curricula vitae, should be sent to the following address and received by December 17, 1993:

James M. Hobkins
Secretary to the Search Committee
Smithsonian Institution
Room SI-215
1000 Jefferson Drive
Washington, DC 20560

All applications and nominations will be treated confidentially. The Smithsonian Institution is an Equal Opportunity-Affirmative Action Employer.

PROFESSOR OF CANCER BIOLOGY

Ref: C93/318

To lead the Cancer and Ageing Research Group which represents one of the University's major research activities. The post will be tenable at the Coleraine campus. The appointee will also be expected to contribute to teaching and administration.

Applicants must have a doctorate in a relevant area of the life sciences and must have a substantial record of refereed publications in cancer biology. A track record of receipt of major external funding for research is desirable.

Salary will be within the professional range, current minimum £30,396 per annum.

Further details and application forms may be obtained from the Recruitment Office, University of Ulster at Coleraine, Cromore Road, Co Londonderry BT52 1SA. (Telephone 0265) 44141 ext 4348).

Closing date: 19 November 1993.

An equal opportunities employer. The University welcomes applications from all sections of the community, from men and women and from those with disabilities.

University of Ulster

MILES INC., Pharmaceutical Division, a rapidly expanding, highly progressive company, offers exceptional growth and advancement opportunities. Join our team oriented, interdisciplinary environment in West Haven, CT.

SENIOR ASSOCIATE RESEARCH SCIENTIST

We currently have a Senior Associate Research Scientist position available in the Institute for Molecular Biologiscs in our Biotechnology Unit. In this position, you will participate in discovery research involving cloning and expression of genes using mammalian systems.

The successful applicant will have extensive experience in several areas of recombinant DNA technology such as gene cloning, DNA sequencing, in vitro mutagenesis and PCR methodology. You must also have proven experience in mammalian cell biology, including maintenance of cell lines, transfection and characterization of modified cell lines, primary tissue and cell culture and analysis and expression of gene products. You will also be involved in the development and/or application of specific assays for the optimization of gene expression.

An MS degree with 2 years' experience or a BS degree with 4 years' experience is required. Excellent interpersonal and communication skills are necessary.

We offer an attractive compensation commensurate with qualifications, generous benefits, and an excellent opportunity for personal growth and professional satisfaction. Resumes including salary history should be forwarded to: Miles Inc., Pharmaceutical Division, Dept. ELD, 400 Morgan Lane, West Haven, CT 06516.

An Equal Opportunity Employer M/F/D/V.
A new International Research Centre has a position for an

**Electrophysiologist**
Paris area

- The candidate should have PhD and post-doctoral experience.
- The candidate will be specialized in neuronal electrophysiology preferably with experience in patch-clamp, oocytes and tissue slices.
- The candidate will lead a small group and form one part of a drug discovery team. For this reason, communication skills are important. The research will be based on the discovery of new leads in neurodegenerative diseases and ageing process treatment.
- The position will be based in a new centre in the Paris area.
- Please send a CV, photo and a handwritten letter, referenced 348/SC, to COMMUNIQUE 50/54 rue de Silly - 92513 BOULOGNE BILLANCOURT CEDEX FRANCE, that will transmit.

---

**Assistant Research Scientist**
**IMMUNE RESPONSE TO HUMAN CANCER**

A Postdoctoral Position is available for studying the nature of antigens expressed in estrogen-regulated cancers that elicit immune response. Anti-tumor T cells that recognize human breast or ovarian carcinoma will be utilized to identify antigens. The long-term goals of this work includes study of the means to enhance the anti-tumor phenotype of human T cells. Applicants should have a strong background in cellular immunology and either gene expression or protein chemistry.

Please send curriculum vitae and the names and telephone numbers of three references to: Ms. Mahi Singh, NYU Medical Center, 550 First Avenue, New York, NY 10016. FAX: (212) 263-8116. CVs to be received by 11/22. EOE, M/F.

WHERE EXCELLENCE IS A WAY OF LIFE.

---

**SENIOR RESEARCH ASSISTANTS**

**Microchemistry Service**

The Microchemistry Service laboratory requires an individual with a BS degree to operate and maintain an Applied Biosystems (ABI) Model 373A Automated DNA Sequencer and analyze data with SeqEd software on a Macintosh computer. This position provides services in support of various research projects and requires working productively in a team environment. Previous experience with the ABI 373A Sequencer and software is desirable but training is available. Experience with a Biomek 100 Automated Laboratory Workstation or an ABI 308B DNA Synthesizer is advantageous.

**Induced Mutant Resource**

We are seeking a highly motivated individual to oversee the development lab of our newly created Induced Mutant Resource. Duties include formulation and testing of PCR protocols, participation in the development of automated PCR procedures and oversight of our Genetic Quality Control staff. Applicants should be experienced in all aspects of molecular biology.

Send inquiries to: Harold Wheeler, Human Resource Manager, The Jackson Laboratory, 600 Main St., Bar Harbor, ME 04609-1500, (207) 288-3371, FAX (207) 288-3371, ext. 1082, Internet hrw@jaretha.jax.org

An Affirmative Action/Equal Opportunity Employer

---

**Scientific Director**

**Gene Delivery Program**

The College of Medicine at the University of Florida invites applications for a full time position at the Associate to Full Professor level to direct a developing program in targeted gene delivery. We are seeking an accomplished molecular biologist (M.D. or Ph.D.) with interests and expertise in any area relevant to gene delivery including virology, cell biology, immunology, molecular biology of human disease, gene targeting, and gene therapy. The candidate is expected to establish an outstanding independent research program, establish and direct a separate career facility specializing in the development of methodology relevant to gene delivery/therapy, and work interactively with our NIH-funded Clinical Research Center. An attractive package of support is available which includes laboratory space for both the candidate's research program and the core facility, as well as resources to recruit both technical personnel and additional tenure track faculty. The anticipated start date is July 1, 1994, and the salary is negotiable. Send curriculum vitae, bibliography, a brief description of research interests, and names and addresses of three references by February 1, 1994 to Dr. Richard C. Condit, Gene Delivery Search Committee, Department of Immunology and Medical Microbiology, Box 100266, University of Florida, Gainesville, FL 32610.

The University of Florida is an Equal Opportunity/Affirmative Action Employer

---

**GROUP LEADER, NEUROBIOLOGY**

San Francisco Bay Area

SUGEN is a biopharmaceutical company devoted to receptor-based drug discovery and development, with primary emphasis on the tyrosine kinases and phosphatase receptor systems. The SUGEN team functions in a science-driven, application-oriented environment with international academic and industrial collaborators.

The position reports to the VP Research and entails supervising a group of post-doctoral researchers. This highly motivated individual will be prepared with a strong background in neurobiology; PhD, MD or equivalent degree; experience in molecular and cellular neurobiology with knowledge of neuroanatomy, neuropharmacology, neurooncology, in vitro culture of neurons, biochemistry and molecular pharmacology.

Competitive salary and benefits, including stock options, comprise our compensation package. Please respond to: SUGEN, Inc., Attn: Dorian Rinella, 515 Galveston Drive, Redwood City, CA 94063-4720. EOE.

SUGEN, Inc.
Electrophysiologist

Wyeth-Ayerst Research, a Division of American Home Products Corporation, has the following opportunity available within the Cardiovascular and Metabolic Disorders Division at our pharmaceutical research facility in Princeton, New Jersey.

BS/MS applicants with 0 - 3 years of experience are sought to join a team of scientists examining the interaction of drugs with ion channel targets. Experience in the measurement and analysis of membrane currents using patch or two-microelectrode voltage clamp techniques is required. Familiarity with techniques of DNA injection into oocytes and/or the isolation of cardiac and smooth muscle cells is desirable.

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please respond by sending your resume with salary requirements to: Human Resources Department, Wyeth-Ayerst Research, CN 8000, Position #521, Princeton, NJ 08543-8000. An Equal Opportunity Employer M/F/D/V.

EMBL

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, Germany, invites applications for the following vacancy:

**COMPUTER MANAGER**

The successful applicant will lead a group responsible for the maintenance and development of computer systems for the EMBL at Heidelberg. Equipment supported by the group includes VMS, Unix, Macintosh and DOS systems and ranges from low end workstations to massively parallel machines. Several computer-based services are offered worldwide and therefore external, as well as internal, networking is an important additional responsibility of the group. The computer manager will be expected to interact with her/his counterparts at the EMBL outstations at Grenoble, Hamburg and Cambridge. Applicants should have substantial experience managing and integrating a heterogeneous computing environment. Specific expertise in VMS system management and networking is required. The ability to articulate proposals for system development and to conduct effective negotiation with external bodies would be advantageous.

EMBL offers a competitive salary and help with relocation expenses. Applications are invited from nationals of the Member States of EMBL. As an inclusive international research organization EMBL encourages applications from women and nationals of southern European or other currently underrepresented Member States.

The closing date for applications is January 1st, 1994. Please send your CV, or write to the Personnel Selection for an application form, quoting ref. 93/31.

1994 Summer Courses at the MARINE BIOLOGICAL LABORATORY

**Biology of Parasitism: Modern Approaches (June 12-August 13)**

This course, for students, postdocs, and faculty focuses on the molecular basis of parasite function and the host/parasite interaction, with special emphasis on the most recent and exciting developments in this area. The course has four sections: cell biology, immunology, molecular biology, and biochemistry. Each section includes daily lectures from course faculty and outside speakers, and intensive laboratory experimentation. Limited to 20 students.

Director: Stephen L. Hajduk, University of Alabama at Birmingham

**Embryology: Cell Differentiation and Gene Expression in Early Development (June 15-July 29)**

An advanced level course intended for graduate students, postdoctoral fellows, and other research scientists who wish a current treatment of major issues in the experimental analysis of developmental biology of the embryo, and the diverse intellectual approaches now useful in this field. Limited to 24 students.

Directors: Eric H. Davidson, California Institute of Technology; Michael Levine, University of California, San Diego; and David R. McClay, Duke University

**Microbial Diversity (June 12-July 28)**

An intensive laboratory and lecture course intended for graduate or postdoctoral students as well as established investigators who desire to become competent in microbiological techniques for isolating and working with a broad range of microbes. Microbial diversity will be described and analyzed in biochemical and physiological terms. Limited to 20 students.

Directors: Martin Dworkin, University of Minnesota; and John Breznak, Michigan State University

**Neural Systems and Behavior (June 12-August 5)**

Intended for graduate and postdoctoral students as well as established investigators. The central theme of this course is the neural basis and categorization of behaviors. Twenty students participate in intensive laboratories/lectures which combine state-of-the-art neurobiological techniques with behavioral and developmental analyses.

Directors: Ronald Calabrese, Emory University; and Martha Constantine-Paton, Yale University

**Neurobiology (June 12-August 13)**

For 12 pre- and postdoctoral fellows who intend to work in cellular and molecular neurobiology. Postdoctoral and students at an advanced stage of their graduate training are particularly encouraged to apply. Themes will be the functions of neural cells, the molecules involved in these functions, and the organization of molecular components required to generate cellular activity.

Directors: Leonard K. Kaczmarek, Yale University; and Irwin Levitan, Brandeis University

**Physiology: Cellular and Molecular Biology (June 12-July 23)**

For a class of 36 graduate students, postdoctoral fellows, and established investigators who desire training in a broad range of research strategies in genetics, physiology and cell and molecular biology. Recent college graduates on their way to graduate school and physicians reentering laboratory research are also encouraged to apply. Interested students may apply for two weeks of postcourse research starting July 25.

Director: Mark Mocaiker, Yale University

Application Deadline: March 1, 1994

Partial financial aid is available to qualified applicants.

**CONTACT: Admissions Coordinator**

Office of Sponsored Programs • Marine Biological Laboratory
Woods Hole, MA 02543 • (508) 548-3705, x401
**POSITIONS OPEN**

**POSTDOCTORAL POSITION IN RADIOBIOLOGY**

Immediate opening to study the structure and function of DNA polymerase $\beta$. Candidates familiar with molecular and cellular biology would send inquiry letter and names of three references to: Joann B. Sweeney, Ph.D., Department of Therapeutic Radiology, Yale University School of Medicine, 333 Cedar Street, P.O. Box 3333, New Haven, CT 06510. (FAX: 203-785-6309). Yale University School of Medicine is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

**VISITING FELLOW PROGRAM**

CHERRY L. EMERSON CENTER FOR SCIENTIFIC COMPUTATION
EMORY UNIVERSITY

The Emerson Center offers a Visiting Fellow Program to people who have permanent positions in other institutions and would like to spend one month to one year in the Center using its unique computing facilities to perform research in computational chemistry and physics. Stipend and/or travel expenses are available. Collaboration with Emerson Center "subscribers" in chemistry and physics is encouraged. The deadline for the 1994-95 academic year is February 1, 1994. However, an earlier application is strongly recommended. For details contact: Frank M. Mason, Jr., Emerson Center for Scientific Computation, 1515 Pierce Drive, Atlanta, GA 30322. It is the policy of Emory University that candidates for, and employees of, Emory University shall not be discriminated against on the basis of race, color, national origin, religion, sex, age, disability, or veteran status is prohibited.

**POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE POSITIONS**

CENTER FOR GENETIC ENGINEERING
BAYLOR COLLEGE OF MEDICINE

Postdoctoral/Research Associate positions are available in the Center for Genetic Engineering at Baylor College of Medicine, which is supported by grants from the National Institutes of Health. The area of interest is study of genetic recombination in prokaryotes and eukaryotes. Potential areas of research include regulation of gene expression in bacteria, eukaryotic systems, and virus infection. Details on the available positions can be obtained by contacting: Robert A. Yerkes, Center for Genetic Engineering, Box 26723, Houston, TX 77225-1723. Initial inquiries should be made to R. A. Yerkes. Salary will be commensurate with research experience and academic rank. Applicants must have a Ph.D. and/or M.D. Applications should be sent to Robert A. Yerkes, Center for Genetic Engineering, Box 26723, Houston, TX 77225-1723.

**POSITIONS OPEN**

**POSTDOCTORAL POSITION—Protein Cleavage with Metal Chelates.** Available immediately, to study new approaches to mapping functional sites on proteins. Candidates with a strong background in protein chemistry and molecular biology are encouraged to apply. Send curriculum vitae, description of research interests and experience to: Prof. Claude F. Meares, Chemistry Department, University of California, Davis, CA 95616-0935. FAX: 916/753-8938. Email: cfmmeares@ucdavis.edu.

**POSTDOCTORAL RESEARCH OPPORTUNITIES IN INDIA.** 3 to 12-month fellowships in India awarded to U.S. citizens in 1993-94. For more information, contact: Jeanine Marie Green, Academic affairs, Educational Development, 1255 23rd Street, N.W., Washington, DC 20037, or 1-800-545-8007.

**POSTDOCTORAL RESEARCH ASSOCIATE**

Senior Research Associate Position—Pulmonary Research Lab

Regular part-time position. Extensive knowledge of cell cultures/animal models, ELISA, and radioisotopes. Bachelor's or Master's in Biological Science required with 3 plus years of experience; extremely competent in Western blotting, cell culture immunofluorescence, confocal microscopy experience desired. Please send resume and salary history to: Children's Hospital of Orange County, 455 South Main Street, P.O. Box 5700, Orange, CA 92613-5700. Attention: Personnel.

**RESEARCH ASSOCIATE/ASSISTANT SCIENTIST**

Krannert Institute of Cardiology
Indiana University School of Medicine

A position is available at the Assistant Scientist level. The candidate must have a strong background in experimental and molecular biology with particular expertise in protein expression and construction of mutant and/or chimeric proteins. Work will involve research on selected enzymes of the vascular wall. For more information, please contact: David R. Hathaway, M.D., Director, Cardiovascular Division & The Krannert Institute of Cardiology Indiana University School of Medicine 1111 West 10th Street Indianapolis, IN 46202-4800 Indiana University is an Equal Opportunity/Affirmative Action Employer.

**RESEARCH ASSOCIATE**

Research Associate available in Neurosurgery Department for tissue culture research project involving the preparation and characterization of human monoclonal antibodies to human tumors. Master’s, Ph.D. or equivalent in health sciences, preferably biology or biochemistry with at least 5 years of research lab experience required. Ph.D. or equivalent in molecular medicine or medical oncology with minimum of 3 years of experience in tissue culture and monoclonal antibody production desired. Proven ability to use computers to generate scientific publications and to perform data analysis and research applications helpful. Salary commensurate with qualifications.

Send curriculum vitae with references to: Michael D. Dan, M.D., Ph.D., Louisiana State University Medical Center, New Orleans, LA 70112. LSUHSC is an Affirmative Action/Equal Opportunity Employer.

**POSITIONS OPEN**

**FIVE POSTDOCTORAL RESEARCH PROJECTS at The Center for Molecular Toxicology.** Projects available at the National Center for Toxicological Research near Little Rock, Arkansas. Four projects require a strong background in research of pesticide effects. The fifth project results from general instrumental techniques: analytical HPLC, capillary GC-FITR, and GC/MS. One project is oriented toward studies using human mass spectrometry, including LC-MS and/or pyrolysis mass spectrometry. Degree in analytical chemistry or related sciences received within last three years preferred. Contact: Postgraduate Research Program, The Center for Molecular Toxicology, U.S. Department of Agriculture, P.O. Box 117, Oak Ridge, TN 37831-0117, Telephone: (615) 576-3190.

**POSTDOCTORAL RESEARCH ASSOCIATE/ASSISTANT PROFESSOR IN THEORETICAL/COMPUTATIONAL CHEMISTRY/PHYSICS AND EXPERIMENTAL CHEMICAL PHYSICS.**

Theoretical and experimental quantum control of chemical dynamics. Ultrashort laser pulse, short wavelength electron and X-ray diffraction as applied to imaging molecular quantum dynamics. Close interaction between experiments, analytic theory and calculations. Looking for exceptionally able (1) interfacial/computational chemists or physicists with strong background in quantum or classical dynamics, quantum control of chemical dynamics or related areas; (2) experimentalists, preferably those with strong background from among molecular beams, charged particle beams, or accelerator physicists. Prof. Kent R. Wilson, Department of Chemistry 0339, University of California, San Diego, La Jolla, CA 92039-0339. Affirmative Action/Equal Opportunity Employer.

**SURGICAL CRITICAL CARE**

The Department of Surgery at Duke University Medical Center is seeking to hire a RESEARCH ASSOCIATE or RESEARCH SCIENTIST to conduct studies related to the molecular mechanisms in critical illness and sepsis. Applicants should have a strong background in molecular biology and microbiology. They should have expertise in recombinant DNA technology, Southern and Northern blotting and experience with the evaluation of DNA and messenger RNA, and tissue and bacterial culture. This individual will interact with other basic scientists and clinicians involved in basic and clinical studies. Additionally, this individual would work closely with and help direct research fellows in the basic laboratory. Contact: Dr. R. Lawrence Reed at (919) 681-5080. Duke University is an Equal Opportunity Employer.

**R.S. DOW NEUROLOGICAL SCIENCES INSTITUTE**

Basic discovery of a system leading to innovative patient care

**NEUROBIOLOGIST.** The R.S. Dow Neurological Sciences Institute is opening a new position in the field of subcellular and cellular neurobiology. The Institute is committed to excellence in interdisciplinary research. Candidates with research interests in the fields of biochemistry, molecular biology, pharmacology, cell biology, or neuroanatomy are encouraged to apply. The Institute will support start-up funds, equipment and laboratory space are available. Level of appointment will depend upon research accomplishments.

Candidates should submit curriculum vitae, three letters of reference, and a brief statement of research goals by November 30, 1994. Send applications to: The Search Committee, R.S. Dow Neurological Sciences Institute, 1120 N.W. 20th Avenue, Portland, OR 97209.
Dean, School of Medicine
Virginia Commonwealth University

Virginia Commonwealth University, a state-supported institution located in Richmond, Virginia, invites nominations and applications for the position of Dean of the School of Medicine. The Dean reports directly to the Vice President for Health and Sciences and is responsible for supervising the operation and programs of the School of Medicine, maintaining their quality, accountability, fiscal stability and accreditation standards.

All candidates should have an M.D. or equivalent degree, scholarly achievement qualifying for the rank of professor with tenure, demonstrated academic administrative experience and abilities, understanding of health policy issues and evidence of leadership in teaching, patient care, research and public service.

The University and its Health Sciences Center is a comprehensive urban, public institution enrolling approximately 20,000 students. VCU is composed of 11 schools and one college on two campuses. The Medical College of Virginia is located in downtown Richmond and includes the Schools of Medicine, Dentistry, Pharmacy, Nursing and Allied Health Professions as well as the 1,058-bed Medical College of Virginia Hospitals. There are more than 700 full-time faculty, 3,000 students, and 550 resident physicians on campus.

Letters of nomination are welcome. Full applications should include a curriculum vitae and the names, addresses and telephone numbers of four references. Virginia Commonwealth University is an Affirmative Action/Equal Opportunity Employer. Women, minorities and individuals with disabilities are encouraged to apply. Applications will be accepted until December 16, 1993. Please address all correspondence to:

John E. Jones, M.D.
Co-Chairman
Dean of Medicine Search Committee
Virginia Commonwealth University
Box 549
Richmond, VA 23298-0549

DEVELOPMENTAL BIOLOGIST
Assistant Professor (Tenure-track)

The Faculty of Biological Science, University of Tulsa, invites applications for the position of Assistant Professor of Developmental Biology, employment to begin Fall Term, 1994. Outstanding candidates from all areas of developmental biology will be considered; however, individuals exploiting transgenic technologies are especially encouraged to apply.

The University of Tulsa is a comprehensive, private university emphasizing excellence in teaching and research. The Faculty of Biological Science currently consists of 16 members with diverse research interests and offers B.S., M.S. and Ph.D. degrees. The department has a fully staffed vivarium and transgenic mouse facility available for faculty use. Salary and start-up funds will be competitive.

The successful candidate will have a Ph.D., a commitment to excellence in undergraduate and graduate education, post-doctoral experience and a publication record indicative of the ability to establish an independent, externally-funded research program.

Applications should submit a Curriculum Vi-
tae, a statement of teaching and research interests, several recent reprints and arrange to have three letters of reference sent to: Chair, Developmental Biologist Search Committee, Faculty of Biological Science, The University of Tulsa, 603 S. College Ave., Tulsa, Oklahoma 74104-3189.

Applications will begin December 1, 1993, and continue until the position is filled.

The University of Tulsa is committed to dis-
versifying its faculty and staff. Members of historically underrepresented groups are en-
couraged to apply. The University of Tulsa is an Equal Opportunity/Affirmative Action Employer.

Arthropod Systematist

The University of California at Berkeley invites applications for a tenure-track position as Assistant Professor with a concurrent appointment in the Agricultural Experiment Station. The position will be based in the Department of Environmental Science, Policy and Management. The appointment will be for 9 months with salary and step dependent on experience and qualifications. The position will be available July 1, 1994.

The appointee will be expected to develop research in arthropod systematics that emphasizes using molecular data to develop phylogenetic hypotheses and classifications.

Applicants must have earned a doctoral degree in a field appropriate for the research area. The successful candidate should have a strong background in molecular techniques and data analysis for application to insect systematics. Teaching experience is desirable, and duties will include developing undergraduate and graduate courses in systematic entomology emphasizing theory and molecular methodology.

Interested persons should apply by sub-
mitting a resume, statement of research in-
terests, list of publications, and the names and addresses of three references. Applications must be received by January 31, 1994.

Jerry A. Powell,
Chair of Search Committee
Department of Environmental Science
Policy and Management (ESPM)
201 Wellman Hall
University of California
Berkeley, CA 94720.

MONTANA STATE UNIVERSITY
Postdoctoral Positions in Structural Biology
of Signaling and Adhesion Systems

A cooperative program studying molecular mecha-
nisms of protein-protein interactions which control a variety of membrane signaling and adhesion sys-
tems funded by NSF, NIH, and private approaches in-
clude mapping peptides on interaction interfaces, NMR studies of bound interfered NAD(P)H
(278-2789(90), photofractivity labeling and mass spectro-
metric analysis. Programs include:

Edward A. Dratz, G protein-coupled receptors, NMR
structure determination and refinement, Nature 283:
278-281(93).
Jean R. Starkey, Adhesion mechanisms in cancer metastasis, laminin receptor structure/function, JBC 267:
25120-8(92).
Algirdas J. Jesaitis, Leukocyte chemotactic receptors, G protein-actin interaction, JBC 267:
7576(92), J. Biol. Chem. 26 Dec(93).
David M. Dooley, Protein structure/function, sub-
unit interactions and active site reactivity, J. A.C.S.
112: 2782-2789(90).
28: 805-825(93).
Mark T. Quinn, Interactions of components of the neutrophil NADPH-oxidase including small G pro-
teins, JBC 287: 7303-9(92).
Mark A. Jutla, Leukocyte and endothelial cell adhe-
sion molecules, selectin structure/function, J. Exp.
Med. 175: 1565-1573(92).
Martin Taintz, Membrane protein insertion, CF
conduction regulator, HLN 125:260-CD4 interaction,
Keith Parker, Dept. of Pharm. Sci., U of MT, Missoula,
222: 153-163(92).

Requires Ph.D. in related area, evidence of re-
search originality and ability in communication.

Applications should consist of a single page describe-
ning background and future goals, include a CV and three references to: Recep-
tive Research Group, 106 Gaines Hall, Montana State University, Bozeman, MT 59717. ADD/EOP/AA/Vet. Pref.
12 November 1993 Issue
Cover Story in SCIENCE

MINORITIES IN SCIENCE

BENEFITS OF RUNNING A FULL PAGE RECRUITMENT ADVERTISEMENT IN THIS SPECIAL ISSUE:

• MORE VISIBILITY
  strategically located in the main body of the magazine, next to career-related editorial.

• HARVEY RESEARCH STUDY
  measures reader awareness and retention of your ad.

BONUS DISTRIBUTION:

ENTIRE ISSUE DISTRIBUTED TO: Minority Access to Research Careers
• Minority Biomedical Research Support Program • National Hispanic Leadership Conference • National Network of Minority Women in Science • National Organization for the Advancement of Black Chemists and Chemical Engineers • National Puerto Rican Coalition • National Technical Association. In addition to these organizations, many more will receive this section for use through mailings and at meetings.

Don't miss this advertising opportunity!
Contact Janis Crowley at (212) 496-7704.

Space Reservation Deadline: Tuesday, October 26
HEAD, DEPARTMENT OF CHEMISTRY
QUEEN'S UNIVERSITY

Queen's University at Kingston invites applications from outstanding scholars for a tenure-track position as Head of the Department of Chemistry, effective July 1, 1994 (or as negotiated).

The successful candidate will have outstanding leadership skills and an exceptional record as a teacher, scientist and administrator.

The Department of Chemistry currently has 28 full-time faculty members, 21 staff, and vigorous graduate and undergraduate programmes. Significant development opportunities in the Department include:

1. Staffing the Bader Chair, a newly endowed Chair in Organic Chemistry;
2. Building a Department in which 50% of present faculty retire over the next 10 years;
3. Building an interdisciplinary programme in Environmental Science based in the natural science disciplines, with the potential for future linkages with social science departments.

The appointment will be at the rank of Professor with salary commensurate with qualifications and experience.

Applications should be accompanied by a curriculum vitae and the names of three referees. The closing date for applications is January 31, 1994.

Please send applications to:
Dr. Laureen Snider, Chair
Advisory Committee for the Headship of the Department of Chemistry
Faculty of Arts and Science
Queen's University
Kingston, Ontario
K7L 3N6

Queen’s University has an employment equity programme and encourages applications from all qualified candidates including women, aboriginal peoples, people with disabilities, and visible minorities. The University is willing to help the spouse of a new appointee to seek suitable employment.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.

ANNOUNCEMENT

Educational Loan Repayment

- The biomedical research community is familiar with the number of grants and contracts awarded by the National Institutes of Health (NIH) to researchers throughout the country. However, in fiscal year 1994, approximately 15% of our $1.3 billion HIV/AIDS budget will be devoted to research activities conducted intramurally at NIH's 306 acre campus in Bethesda, Maryland.
- Located close to the center of Washington, D.C., the NIH employs more than 4,000 doctoral level scientists (Ph.D.'s, M.D.'s, D.D.S.'s, D.M.D.'s, D.V.M.'s, and D.O.'s). NIH’s 500-bed Clinical Center is home to more than half the research beds in the country.
- The NIH offers a loan repayment program (LRP) for researchers and physicians—who agree to join our HIV/AIDS research team for a minimum of two years. Depending on your total debt, we can repay up to $20,000 per year of your educational debt and provide partial reimbursement for Federal (39% of loans repaid), State and local tax liabilities. All LRP benefits are in addition to attractive Federal salaries and associated benefits.
- The NIH provides exceptional training opportunities in basic, behavioral and clinical research. The following are some examples of the HIV/AIDS research projects in which our LRP participants are engaged: a molecular analysis of the viral burden in blood and lymphoid tissue of HIV-infected individuals on antiretroviral agents; the design and synthesis of synthetic peptide polymers for the production of anti-HIV vaccines; and the development of a prokaryotic expression system for the viral protein and the establishment of viral and cellular affinity columns.
- More than 70 researchers and physicians have benefitted from the NIH’s LRP for AIDS Research since its inception in FY 1990. Our ability to make accelerated repayments has enabled us to significantly reduce the educational debt burden of our participants and prevented the accrual of large amounts of interest, allowing them to pursue biomedical research careers.
- Telephone the LRP InfoLine, 24-hours a day toll-free, at 800-528-7689, to obtain our recently updated Applicant Information Bulletin and our User's Guide to the NIH EDNET, an electronic bulletin board listing NIH's postdoctoral training opportunities.

National Institutes of Health
Public Health Service
U.S. Department of Health and Human Services

This program is administered without regard to race, color, national origin, handicap, age, sex, or religion.
TUMOR BIOLOGIST

Candidate must have a Ph.D. or equivalent degree with minimum of 5 years of postdoctoral work in the field of animal models of tumors. Scientific writing skill is advantageous. Salary $50,000 to $65,000 annually depending on previous experience. Send complete resume and names of two references to: Personnel Department, InfaZyme Pharmaceuticals Inc., Suite 800, 777 West Broadway, Vancouver, B.C. V5Z 4J7.

MOLECULAR GENETICIST

The Department of Biology at Occidental College invites applications for a tenure-track position for a Molecular Geneticist. Applicants should have a strong commitment to teaching at the undergraduate level and to research. The successful candidate will normally teach courses in genetics and biochemistry. She is expected to develop a rigorous research program involving undergraduates. The exact area of research is open. The new faculty member will have the opportunity to participate in the Cell and Molecular Biology Emphasis and to be involved in the interdisciplinary Biochemistry major. Occidental College is a selective, small liberal arts college with excellent research and teaching facilities, located in Los Angeles. It is also a nationally recognized leader in multicultural education. Send curriculum vitae, statement of your research and teaching interests, copies of significant publications, and arrange to have three letters of reference sent, by December 8, 1993, to: Dr. Roberta Pollock, Department of Biology, Occidental College, 1600 Campus Road, Los Angeles, CA 90041. Occidental College is an Equal Opportunity/Affirmative Action Employer. Women and people of color are particularly encouraged to apply.

ANNOUNCEMENTS

PHARMACEUTICAL DESIGN: ANTI-SENSE, TRIPLE HELIX, NUCLEIC ACID BINDING DRUGS.


COURSES AND TRAINING

APPLIED MOLECULAR BIOLOGY

The University of Maryland Baltimore County is accepting applications for its unique 2-year M.S. Program in Applied Molecular Biology. Designed to provide the coursework, practical laboratory experience, and research internships for positions in biotechnology or research requiring state-of-the-art molecular technology. Information and applications: Department of Biology, U.M.B.C., Baltimore, MD 21228-8398. Telephone: (410) 455-3699. Equal Opportunity University.

SHORT COURSE ON TIME-RESOLVED FLUORESCENCE SPECTROSCOPY

January 10-14, 1994, Baltimore, Maryland. Center for Fluorescence Spectroscopy. University of Maryland School of Medicine.

Topics include: time- and frequency-domain measurements and instrumentation, data analysis, anisotropy, quenching, lifetime-based sensing, fiber optics, Forster energy transfer, intrinsic fluorescence, pH, and photos elicitation, and fluorescence lifetime imaging and microscopy. For outline/registration form, contact: Suzy Rhinehart (coordinator) or Prof. J. R. Lakowicz, Department of Biogical Chemistry, University of Maryland School of Medicine, 108 North Greene Street, Baltimore, MD 21201; Telephone: 410-706-8409; FAX: 410-706-8408.
New products from Cayman Chemical

Plant Growth Regulators
Autooxidation Products

NO Reagents
Enzyme Inhibitors
cDNA Probes

Fatty Acids
EIA Kits

Lipids

Prostaglandins & Thromboxanes
Hydroxy & Hydroperoxy Fatty Acids

1994 Cayman Catalog

The 1994 catalog will be available in November. To ensure receipt of your copy, please contact our Customer Service Department.

CAYMAN CHEMICAL

690 KMS Place • Ann Arbor, MI 48108 USA • Phone: (313) 662-6756 • Fax: (313) 662-6896

Circle No. 42 on Readers' Service Card
TODAY'S BEST IN A MICROCENTRIFUGE, MORE OR LESS.

Less Noise
Produces less than 60 dBA of noise at top speed—won't disturb the work environment.

Less Waiting
Accelerates to 13,200 rpm in only seven seconds and brakes to stop in 9 seconds. No other micro does quick spins better.

Less Sample Loss
Individual wells fully support microtubes to prevent bending or breaking. Sample may be easily recovered if a tube fails.

Less Contamination
Unique corrosion-free polypropylene rotors are compatible with bleach and Count-off... much easier to clean or decontaminate than aluminum rotors.

More Tubes Per Run
Spins 24 x 1.5 mL, 48 x 0.5 mL or 40 x 0.4 mL and accepts all common microtube formats including screw-cap designs, microtube filters and micro spin columns.

More Separating Power
Forces to 16,250 xg for faster, more complete separations. Produces up to 25% more G's than other routine microfuges.

More Accuracy
Speed is maintained within 10 rpm of set value with no overshoot regardless of rotor used. Run times are ± 1 second for exact replication of runs.

More Convenience
Low profile design and exposed rotor chamber make loading/unloading quick and easy. Cover gently pops open at end of run.

More Useful Features
Unique accel/decel rate controls permit greater flexibility for delicate samples; self-diagnostics prevent errors and simplify service if it's ever needed.

More Value
Outperforms competitive units yet cost about the same or less. Built for years of trouble free operation.

INTRODUCING
IEC MicroMax®
DIGITAL MICROCENTRIFUGE

Call or write to request a demo today!

IEC QUALITY
CENTRIFUGES
SINCE 1901.

300 SECOND AVENUE
NEEDHAM HEIGHTS
MA 02194, USA.
(617) 449-8060
TOLL FREE: (800) 843-1113
FAX (617) 444-6743

INTERNATIONAL EQUIPMENT COMPANY
For information circle reader service number 68
For a sales call circle reader service number 69