Growth Control, Signal Transduction, and Oncogenesis

November 4-5, 1993
The Beverly Hilton, Beverly Hills, CA

This symposium features a distinguished international panel of speakers, who present the most recent molecular and biochemical advances in the regulation of the cell cycle, growth factor signal transduction, and novel therapeutic strategies.

Topics to be covered include cyclins, tyrosine kinases, G-proteins, nuclear oncogenes, viral transformation, and gene therapy.

For a detailed brochure please call (310) 206-8983.

1993 AAAS AWARD FOR PUBLIC UNDERSTANDING OF SCIENCE AND TECHNOLOGY

Nominations Invited

- An annual Award for working scientists and engineers from all disciplines who make outstanding contributions to public understanding of science and technology but are not members of the media
- Contributions should have a significant impact on the public; be accurate, timely, and innovative, and convey the meaning, excitement, and significance of scientific activity
- The Award will be presented during the AAAS Annual Meeting in San Francisco, California, February 18-23, 1994
- The Award carries a $5,000 prize

1992 Award Winner: Farouk El-Baz
Boston University

For additional information, contact: Judy Kass, Project Director, American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005, telephone (202) 326-6667 or fax (202) 371-9849.
Deadline for nominations is 1 August 1993.
ASSISTANT PROFESSOR IN RESIDENCE

The Department of Pharmacology at the UCLA School of Medicine seeks well-qualified applicants for the position of Assistant Professor in Residence as part of our expanding cardiovascular research program in Preventive Medicine, Pharmacology, and Cardiology. Candidates must have, or expect to have, an M.D. degree, should have completed training in Internal Medicine and have experience in Cardiology and Cardiovascular research. Priority will be given to applicants with experience in directing clinical research activities in an academic setting in the areas of cardiovascular pharmacology and metabolism. Applicants are expected to participate in teaching activities of the department including supervision of graduate students, postdoctoral scholars, medical students, residents and fellows. Applicants should send curriculum vitae, statement of research interests and at least two references to: Heinrich Schelbert, M.D., UCLA, Department of Pharmacology, 22-148 CHS, Los Angeles, CA 90024. Equal Employment Opportunity/Affirmative Action Employer.

NEUROLOGIST/NEUROSCIENTIST

The Department of Neurological Sciences at Stanford University School of Medicine is searching for a faculty member at the ASSISTANT PROFESSOR level in the University's Department of Neurology and Neurological Sciences. The successful candidate will be a board certified or eligible neurologist who can participate in the clinical and teaching programs of the department, and who can also develop an independent funded program of basic research in neurology. The research interests of current faculty include cellular and clinical neurophysiology, epilepsy, stroke, neurochemistry and neuroimmunology. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates. Applications and nominations should be directed to: Les Dorfman, M.D., Professor and Acting Chairman, Department of Neurology and Neurological Sciences, Room H3160, Stanford Neuroscience Medical Center, Stanford, CA 94305-5235.

FACULTY POSITION

ASSOCIATE OR FULL PROFESSOR AND RESEARCH SCIENTIST

ENVIRONMENTAL HEALTH SCIENCES

The Department of Biomedical and Environmental Health Sciences, School of Public Health, University of California, Berkeley, invites applications for a faculty position at the ASSOCIATE or FULL PROFESSOR level. The position is a nine-month, fully state-funded appointment, 50% from the Department's instructional budget and 50% from the recently approved Center for Occupational and Environmental Health. Applicants are sought who have made distinguished contributions in field investigation and scholarly contributions in environmental issues impacting the health of populations in the developing world. The appointee will be expected to continue a field-oriented research program focused at the intersection of environment, health and development. Teaching duties include a specialty course in the area of the individual's research and contributions to the general curricular offerings of the Department. Applicants should send curriculum vitae, a statement of teaching and research interests and the names of three references to: Professor Katherine Koshland, School of Public Health, University of California, Berkeley, CA 94720, by the closing date of July 1, 1993. Anticipated appointment date is July 1, 1994. The University of California is an Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGY/IMMUNOLOGY

The School of Podiatric Medicine at Barry University seeks applicants for ASSISTANT or ASSOCIATE PROFESSOR, Ph.D. with preparation in microbiology, infectious disease, immunology; commitment to teaching podiatric medical students; preference given to those with at least two years of full-time teaching/research experience. Responsibilities include lecture, laboratory and student advising. Send résumé, transcripts and three letters of recommendation to: Dr. Chet Evans, D.P.M., 816-785-4557; or FAX: 816-785-4046. Applications will be reviewed starting June 7, 1993, and will be accepted until the position is filled.

VISITING ASSISTANT PROFESSOR/INSTRUCTOR OF BIOLOGY

Northeast Missouri State University (NMSU), the state's public Liberal Arts and Sciences University, offers a non-tenure track position for a proposed visiting assistant professor/instructor of biology to begin fall, 1993. Responsibilities include lecture and laboratory instruction in General Biology classes for majors and non-majors. Salary and rank commensurate with experience. Candidates (Ph.D. preferred) must be trained in microbiology and should demonstrate a strong commitment to teaching undergraduate students. Responsibilities include lecture, laboratory and student advising. Send résumé, copies of transcripts and names of three letters of recommendation to: Dr. Kenneth Eldridge, Chair, Department of Biological Sciences, NMSU, Kirksville, MO 63501. NMSU is an equal opportunity, affirmative action employer and encourages applications from women and minorities.

ANATOMIST

The Department of Anatomy in the Faculty of Medicine at the University of British Columbia (UBC) invites applications for a tenure-track faculty position. Appointment will be at the ASSISTANT PROFESSOR level. Candidates must have, or expect to have, an M.D. degree and at least two years of postdoctoral experience. Applicants must have an independent research program and will be expected to qualify for research support from external granting agencies. Current research programs of the Department are focused in the areas of Cellular and Developmental Biology, Cell Biology, Muscle Biology, and Cancer Biology. We are particularly interested in individuals who employ molecular biological approaches in research areas complementary to those of the department. Applicants must be able to link Anatomy to medical and dental students and to participate in graduate student teaching. Salary is dependent on qualifications and experience. The anticipated starting date is July 1, 1994. The deadline for application is August 31, 1993, or until such time as a suitable candidate is identified.

Applications, including curriculum vitae, selected reprints, a statement of research interests, and the names of three academic referees should be sent to: Dr. J. T. Evershed, Head, Search Committee, Department of Anatomy, The University of British Columbia, 2177 Wesbrook Mall, Vancouver, B.C., Canada V6T 1Z3. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. UBC welcomes all qualified applicants, especially women, Aboriginal people, visible minorities and persons with disabilities.

FRANCIS D. M. WOLF
POSITIONS OPEN

VERTEBRATE PHYSIOLOGY. University of Central Oklahoma. ASSISTANT PROFESSOR. Full-time appointment effective August 23, 1993. Requires Ph.D. in vertebrate physiology or related field. Previous higher education experience preferred. Demonstrated commitment to teaching excellence expected. Teach human physiology, comparative animal physiology, mammalian and/or physiological ecology and non-majors' general biology. Develop active research program in ecological or environmental microbiology; direct master's research. Salary and rank commensurate with degrees and experience. Submit application letter, resume, official transcripts and three letters of recommendation to: Dr. G. Kay Owens, Dean, College of Math & Sciences, University of Central Oklahoma, Enid, OK 73704. POSTMARKED APPLICATION DEADLINE: May 28, 1993. Affirmative Action/Equal Opportunity Employer.


THE NEW ENGLAND DEACONESS HOSPITAL

HARVARD MEDICAL SCHOOL

PROFESSOR OF SURGERY (IMMUNOLOGY)
The New England Deaconess Hospital and Harvard Medical School are seeking a Professor of Surgery (immunology) to serve as a full-time Director of a Center for Transplantation Immunobiology. The successful candidate (M.D. or Ph.D.) will be an internationally recognized leader in the field of immunobiology with a record of consistent productivity in xenotransplantation research, immunogenetics, and T cell regulation and signal activation as related to graft rejection. He or she will be expected to achieve significant independent research support, and to recruit and lead a faculty of leadership potential. Research in the area of xenotransplantation research involving endothelial cell biology, endothelial cell gene expression and regulation and manipulation of endothelial cell phenotype will facilitate successful xenotransplantation. The successful candidate will teach medical students, graduate students and fellows. He/she will have a demonstrated knowledge of clinical transplantation problems. Applicants are asked to submit a resume and five letters of reference. The New England Deaconess Hospital and Harvard Medical School are Equal Opportunity/Affirmative Action Employers.

BIOLOGY: ASSISTANT PROFESSOR, TENURE-TRACK. Ph.D. plus teaching experience. To teach undergraduate courses (such as General Biology, Microbiology, and Genetics) and one graduate course in a related area. Applicants must have potential to develop and fund a research program and to involve students in the effort. Starting date: late August 1993. Screening will begin immediately and will continue until the position is filled. Send application letter, curriculum vitae, statement of teaching philosophy, copy of transcript and three letters of recommendation to: Dr. Jerry K. Weathersby, Chair, Biology Search and Screen Committee, University of Southern Colorado, 2200 Bonforte Boulevard, Pueblo, CO 81001; Telephone: (719) 573–2745, FAX: (719) 549–2270. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

AUDITORY RESEARCH SCIENTIST

The Division of Pediatric Otolaryngology at The Children's Hospital is seeking a scientist with interests in auditory development or recovery, with research experience using molecular, biochemical, ana- tomical and/or physiological techniques. A position at Marshall, Ph.D., Pediatric Otolaryngology, Children's Hospital of Philadelphia, 3400 Civic Center Boulevard, Philadelphia, PA 19140. The University of Pennsylvania is an Equal Opportunity, Affirmative Action Employer.

PHYSICAL OCEANOGRAPHER

The University of Maryland Center for Environmental and EARLY CAREER APPOINTMENT TO ASSISTANT PROFESSOR OF PHYSIOLOGICAL ECOLOGY. Institute invites applications for a tenure-track faculty position in physical oceanography at the ASSISTANT PROFESSOR level. We are seeking a colleague who will contribute with our present program, which includes research in the broad area of estuarine circulation, sediment resuspension and transport, numerical modeling and interdisciplinary research. The successful candidate will have a Ph.D. in physical oceanography, and a similar discovery is required. Additional postdoctoral experience is preferred. Send cover letter, statement of research interests, curriculum vitae, and names of at least four references by June 30, 1993, to: Chairman, Physical Oceanography Search, Horn Point Environmental Laboratory, P.O. Box 775, Cambridge, MD 21613; Telephone: (410) 228–8200. Affirmative Action/Equal Opportunity Employer.

BIOLGY DEPARTMENT HEAD

Utah State University is reopening its search for a Biology Department Head. The position requires a full professor who must have a Ph.D. in a relevant field, leadership abilities, a record of accomplishment in academic teaching and research, and must be tenurable at the full professor level. This position is expected to provide intellectual and administrative leadership for 47 faculty with diverse research interests in the ecological, organismal, and molecular bases of biology. The department has major teaching responsibilities for 500 undergraduate majors and 80 graduate students. The Biology Department Head will be responsible for faculty/staff personnel, budget management, and coordination of research programs with other campus units including the Utah Agricultural Experiment Station, Extension Services, and the Biotechnology Center. Candidates must submit curriculum vitae, a statement of career goals, and names, addresses, and telephone numbers of at least three individuals who will serve as references. Address the application to: Jon Take- moto, Chair, Search Committee, Department of Bi- ology, Utah State University, Logan, UT 84322–5300. Applications should be sent by March 1, 1993, and the closing date is January 15, 1993. On March 1, 1993, the chair will begin screening applications. Applications will be reviewed until a final candidate is identified. Utah State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

THE HEREWORTH UNIVERSITY

HADASSAH MEDICAL SCHOOL

Jerusalem, Israel

FACULTY POSITIONS

Applications for the following positions are invited:
I. Tenure-track faculty positions in basic medical sciences with preference to candidates who utilize modern molecular/cellular approach in microbiology, human genetics, biochemistry, cell biology, developmental biology or pharmacological sciences.
II. A tenure-track position in physiology with a preference for candidates who utilize modern molecular/cellular approach in cardiovascular, renal, pulmonary or digestive system physiology.
III. Ph.D. or M.D. degree and postdoctoral training are required for these positions. Research and teaching will be of prime importance in the decisions of the search committee. Candidates are expected to develop independent research. Curriculum vitae, list of publications, 3 to 5 selected reprints, research plans and three letters of recommendation addressed to: Dean Prof. O. Abram- zky, Hadassah Medical School, P.O.B. 11475, Jerusalem 91110 (Israel) should be submitted by January 30, 1993.

SCIENCE • VOL. 260 • 7 MAY 1993
Call For Abstracts

First Year Clinical Residents Are Invited To Attend The Research Festival At The National Institutes Of Health.

The NIH Research Festival is the annual scientific meeting for physicians and scientists on the intramural campus in Bethesda, Maryland. Last fall in nearly 70 symposia, workshops, and poster sessions, over 600 papers were presented by NIH scientists working in the basic and clinical biomedical sciences. The major symposia and workshops included, among others, Dopamine: Molecules, Membranes, Movement and Mind; Transgenic Animals in the Study and Treatment of Human Disease; The Extracellular Matrix in Development and Pathology; Structural Biology; Signal Transduction and Cell Growth Regulation, Image Processing—Molecular, Cellular, and Clinical Aspects; Genome Mapping and Sequencing, Transgenic Systems, Chromatin Structure and Gene Expression; Homeobox Genes in Development; and Genetic Approaches to Cancer Treatment.

As part of this year’s program the NIH will recognize the contributions of young physician scientists in training—the academicians of the next century. Residents who are currently in their first postgraduate year of US clinical training in a categorical specialty (second year beginning July 1993), will be invited to participate in the NIH Research Festival from Sunday, September 19, 1993 through Tuesday, September 21, 1993. Residents will have an opportunity to present their work in poster sessions at the meeting, and expenses will be covered. In addition, five residents who have distinguished themselves by exemplary contributions will receive the Research Award for Clinical Trainees.

The NIH is calling for abstracts from residents who wish to participate. Abstracts may be of research in any biomedical discipline completed during residency or as a medical or graduate student. One 5" by 7" abstract per candidate will be accepted. Please submit abstracts on a 3 1/2" diskette and include a printed copy. Label the diskette with the resident’s name, type of computer and word processing program. The abstract should be accompanied by a cover letter describing training and career plans, curriculum vitae, bibliography, and three letters of recommendation from those familiar with the resident’s professional development.

The NIH will also recognize residents currently in their first year of training who are interested in academic medicine and have distinguished themselves clinically but perhaps have not participated in a research program. This year, medical or pediatric residents with a special interest in Allergy and Immunology or Infectious Diseases are invited to apply. Except for submitting an abstract, the application process is the same as above. Applicants should send their materials to Dr. Michael Fordis, Director of the NIH Office of Education, Residents Award Program, Building 10, Room 1C129, Bethesda, MD 20892. Phone: 301-496-2427. Deadline for receipt is June 25, 1993.
MOLECULAR BIOLOGIST/IMMUNOLOGIST

Ph.D. or M.D. needed with experience in DNA cloning, sequencing, in vivo and in vitro footprinting, and identification and characterization of transcription factors important for regulating T cell development with knowledge of thymic development and selection, and MHC class I and T cell receptor gene regulation in particular γδ TCR. Experience in cell cloning, mammalian gene expression and transgenic mice are required.

Salary commensurate with experience ($28,000 - $36,000).

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

John E. Coligan, Ph.D.
Chief, Biological Resources Branch
NIAID, NIH
Building 4, Room 413
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-3213 phone
(301) 402-0284 fax

NIH is an Equal Opportunity Employer
ANNOUNCEMENT:
AVAILABILITY OF GRANTS FOR BASIC
GLYCOSCIENCE STUDIES

Mizutani Foundation for Glycoscience announces the availability of research grants for basic researches in glycoscience. The suggested proposals for this year are the studies of glycoconjugates; namely, their biochemistry, organic chemistry, biophysics, molecular biology, immunology, and medical significance.

Mizutani Foundation for Glycoscience is a non-profit, private organization devoted for the advancement of glycoscience. The foundation was established on October 1, 1992 with the funds donated by Mr. Masakane Mizutani, Chairman of Seikagaku (Biochemical) Corporation, Tokyo, Japan.

Note 1: For the current year (4/93–3/94) the research “year” is effective only from October 93 through March 94, a 6-month period in total.

Qualification: An applicant must (a) have a Ph.D. or M.D. degree, or their equivalent, in a field related to the proposed study, (b) be a member of a research institute where he or she can carry out the proposed project, and (c) have a documented capability to do independent research in the field of glycoscience.

Grant: As much as 10,000,000 yen (including overhead) may be requested for a research proposal per annum. As a rule, the grant will be approved for one (1) year, but certain proposals, depending on the merit of ongoing research, may be granted a further one year extension, provided application for such extension is made before the end of the ongoing funding period.

Please see Note 1 above for definition of current year.

The total money available for the grant is approximately 100,000,000 yen per annum. However, the cash to be allocated for new research proposals and the number of proposals to be funded may vary each year.

The approved grant will be awarded to the research institution to which the principal investigator is affiliated. No budget will be included in the grant for the stipend of the principal investigator or collaborators. There are certain other regulations as specified in the application form.

Selection: The research proposals will be reviewed and evaluated by the committee of specialists appointed by the foundation for the originality, scientific merit, and feasibility. The potentiality of the principal investigator and the research environment will also be considered.

Application form: The official application form may be obtained by sending a letter or fax (in English, no phone call please) to the North American office of Mizutani Foundation for Glycoscience: Department of Biochemistry, Meharry Medical College, 1005 David Todd Jr. Blvd., Nashville, TN 37208, USA (Fax: 615-327-6442).

Deadline: The deadline for application is June 30, 1993 at the Tokyo office of Mizutani Foundation for Glycoscience: Sen-i Kaikan, Suite 5F, 3-1-11 Nihonbashi-honcho, Chuo-ku, Tokyo 103, Japan (Fax: 03-3246-1265).
POSSESSION OPEN

The University of Wisconsin Medical School is seeking candidates for the position of ASSOCIATE DEAN. This position will serve as a senior faculty advisor to the Dean and will have responsibilities within the areas of multicultural issues and initiatives, student affairs, academic programs, budget development, and long-range planning, including the development of multicultural programming and curriculum for students, and programs to enhance recruitment and retention of minority faculty, staff and students.

The successful candidate will possess proven leadership abilities, creativity, and a commitment to advancements of cultural diversity. Candidates must have academic credentials to qualify for the rank of associate professor or full professor on the tenure track or the Clinical Health Sciences (CHS) track, in an academic department of the Medical School. Approximately 50 to 80 percent of the time will be devoted to Medical School administration. Faculty rank and salary will be commensurate with experience and qualifications. Applications from minorities and women are especially encouraged.

Applicants should send a letter of application, detailed curriculum vitae, names, addresses and telephone numbers of three references to: Carl J. Getto, M.D., Chair, Associate Dean Search and Screen Committee, University of Wisconsin Medical School, Room 1205 Medical Sciences Center, 1300 University Avenue, Madison, WI 53706. The deadline for application is July 30, 1993.

Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

BIOLOGICAL SCIENCE FACULTY: Full-time, academic year (9-month), tenure-track position commencing August 15, 1993. The person hired will be responsible for teaching Animal Physiology and should be capable of teaching introductory Zoology. In addition, the person should have the interest and background to teach at least two of the following: Embryology, Ichthyology, Invertebrate Zoology, Entomology, Aquatic Entomology, Pathophysiology, and/or Genetics. Candidates must have a Ph.D. in one of the biological sciences and be committed to teaching in an undergraduate program. Demonstrated ability and interest in undergraduate teaching, advising, and in directing and guiding research is essential.

Submit a letter of application, detailed curriculum vitae, and three letters of reference to: Office of Employee Services, Administration Building, LAKE SUPERIOR STATE UNIVERSITY, Sault Ste. Marie, MI 49783.

APPLICATION DEADLINE: MAY 28, 1993
An Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

NMR SPECTROSCOPY. The University of Massachusetts at Amherst invites applications for a tenure-track FACULTY POSITION in NMR spectroscopy. Appointments will be considered at any level and in any of three areas: Biochemistry, Chemistry, or Molecular Biology. Chemistry, or Polymer Science and Engineering, depending on the interests of the candidate. It is anticipated that the successful candidate will develop an active research program in the application of NMR methods to problems of structure and dynamics of macromolecules of natural or synthetic origin. Vigorous participation in the teaching responsibilities of the Chemistry and/or Science sciences community on campus is also expected. Salary is commensurate with qualifications and experience. Please send a resume, a brief statement of teaching and research interests, and three letters of recommendation to: David A. Tirrell, Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA 01003.

The deadline for receipt of applications is July 1, 1993; however, the search will continue until an appointment is made. All comments are subject to final budget approval. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.

POSSESSION OPEN

FACULTY POSITION
Department of Physiology and Biophysics
University of Mississippi Medical Center

Applications are invited for tenure-track positions in the Department of Physiology and Biophysics. Candidates must have a Ph.D. or an M.D. and postdoctoral training and are expected to maintain an independent research program with a strong commitment to teaching. Special consideration will be given to candidates with background in molecular and/or cellular physiology, regulation of extracellular matrix, or an interest in renal tubular transport or vascular smooth muscle mechanisms. Faculty rank and salary will be commensurate with credentials. Interested applicants should send curriculum vitae, an indication of past and current research funding, a statement of research interests and at least three references to: Dr. John Hall, Department of Physiology and Biophysics, University of Mississippi Medical Center, Jackson, MS 39216. Equal Opportunity Employer, M/F/D/V.

BIOLOGIST with botany interest and experience in the context of research on an undergraduate level, is available. Applications from candidates with a Ph.D. in botany, with strong background in cellular and molecular biology, and/or genetics are especially encouraged. The successful candidate will be expected to participate in undergraduate and master's level instruction, while developing and carrying on research interests to the degree in keeping with other standard academic requirements. Applicants should submit a resume, including teaching and research experiences of at least three years and the names of three references to: Dr. G. Albright, Department of Biology, University of Detroit Mercy, P.O. Box 19900, Detroit, MI 48219-0900. An Equal Opportunity/Affirmative Action Employer.

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POSTDOCTORAL OPEN

POSTDOCTORAL POSITION
Available immediately to study molecular cardiovascular physiology. Candidates must have a Ph.D. in physiology, pharmacology, or related area, and a firm commitment to research. Background in molecular biology is not necessary. Projects include: (1) studies involving in vivo hemodynamic (macro- and microcirculatory) analysis of transgenic animals, or (2) gene therapy involving the arterial wall and/or heart. Send curriculum vitae, summaries of research interests and three references to: Dr. R. obe Barone, Division of Cardiovascular Research, Alton Medical Foundation, 1520 Jefferson Highway, New Orleans, LA 70121. Ober is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
MOLHEMIC BIOLOGY OF CANCER

Two funded positions are available to qualified Ph.D. or M.D. candidates to study tumor suppressor genes in sporadic and inherited breast cancer (D. Hoggs) and molecular events leading to melanoma (N. Lassam). Send resume and letters of reference to: Dr. David Hoggs, The Toronto Hospital, E33-306, 200 Elizabeth Street, Toronto, Ontario, M5G 2C4, FAX: 416-340-3267; or Dr. Norman Lassam, Medical Sciences Building, Room 7266, University of Toronto, Ontario, M5S 1A8, FAX: 416-978-8765.

POSTDOCTORAL POSITION
SOUTHWESTERN OHIO

Immediate opening to conduct molecular and biochemical studies on the biology of an obligate intracellular parasite. Ph.D. in biology or microbiology, and expertise in molecular biology and/or biochemistry of parasites required. No experience required. Must have proof of legal authority to work indefinitely in the United States. Send resume in duplicate and salary requirements to: J. Davies (JO #230900), Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

POSTDOCTORAL POSITION
CELL/MOLECULAR BIOLOGY

An opening is available July 1, 1993, for a three-year research, postdoctoral cell/molecular biologist to study cell sorting and membrane protein trafficking defects in human renal epithelia during normal and abnormal development. A strong background in cell culture, biochemistry, and molecular biology is essential. Send curriculum vitae, a brief description of research experience, and names, addresses, and telephone numbers of three references to: Dr. Patricia D. Wilson, The Johns Hopkins School of Medicine, Division of Nephrology, Ross 3310, 720 North Broadway, Baltimore, MD 21205. Equal Opportunity Employer/M/F/H. Drug-free and smoke-free.

POSTDOCTORAL ASSOCIATE

In Neurology. Available in January 1994 to study neuremodulation involving amino acids and monoamines in the spinal cord. At least two years of postdoctoral experience in the analysis of drug and transmitter responses on neurons, the molecular biology of transmitter receptors and whole-cell and isolated patch-clamp techniques is necessary. Send curriculum vitae and the names of three references to: Dr. Robert A. Davodoff, Department of Neurology, University of Miami School of Medicine, Post Office Box 16960, Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
YALE MEDICAL SCHOOL

Position available to study structure, function, and transcription of human small nuclear RNAs. Please send curriculum vitae and names of three references to: Dr. Alan M. Weiner, Department of Molecular Biophysics and Biochemistry, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510 USA.

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SCIENCE • VOL. 260 • 7 MAY 1993
BIOTECH '93: Nationwide Network of Biotechnology Job Fairs

Make every effort to attend biotechnology's largest and most effective career events. The job search process has become more effective for job candidates and employers alike. With the introduction of Biotech '93, job fairs exclusively for biotechnology professionals, job applicants can interview decision makers for hundreds of positions nationwide at one time and in one place. You conduct an entire job search in a few hours, saving you time, effort, and money.

Don't pass up this opportunity! Interview for hundreds of positions with the nation's top biotech, biopharmaceutical and medical research organizations. Available positions include:
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- Positions in Distribution
- Quality Assurance
- Process Development and Formulation
- Toxicologists
- Chemists
- Biologists
- Hazardous Waste Professionals
- Sr. Research Assistant
- Sr. Research Associates
- Research Associates
- Sr. Research Scientist
- Sr. Scientist/Project Manager
- Clinical Data Associates
- Sr. Regulatory Associate
- Technical Support Associate
- Quality Control Manager
- Director, Data Management
- SAS Programmers
- Programmer/Analyst
- and many others!

For information on attending BIOTECH '93, call the 24-Hour Lendman Infoline 804-473-2480

In order to have your background information distributed to all participating companies, send resume/CV to:

The Lendman Group • Biotech '93, 5500 Greenwich Road, Virginia Beach, VA 23462.

Complete and return with copy of resume/CV. Your background information will be sent to participating companies.

Name: ____________________________ Address: ____________________________
Phone: __________________________ Work ____________________________
Highest Degree: __________________ University: ____________________________ Year: __________________
Association Memberships: ____________________________
Willing to Relocate? □ Yes □ No Preferred Locations: ____________________________
Current or Last Employer: ________________________________________________ Income Requirement: $____________
City __________________________ State ______________ Dates: From: __________ To: __________
Identify key areas of your experience (circle the appropriate responses): Give cumulative number of years biotech experience:
Preclinical Research
Chemistry: Organic Inorganic Protein Bio Medicinal Analytical Lipid Peptide Carbohydrate Synthetic Chemistry Other - Specify
Biology: Metabolism Pharmacokinetic Cell Biology Nutrition Molecular Biology Pharmacology Immunology Pathology Toxicology Physiology
Biotechnology Genetics Microbiology Virology Enzymology Histology Neuroscience Other – Specify
Manufacturing
Fermentation Development Process Development Formulations Development QA/QC Operations Manufacturing Engineering Biotech Production
Bioprocess Materials Management Downstream Processing Other – Specify
Regulatory Affairs
Director Manager Sr. Associate Associate Other – Specify
Clinical Research
Data Management Clinical Research Associate Project Management Documentation Associate Director Director Medical Affairs Other – Specify
Systems
Computer Modeling SAS Programming Programmer/Analyst Documentation Data Management Other – Specify
Administration
Statistics Consultants Purchasing Marketing Sales Other – Specify

Job Fairs you plan to attend: May 13 June 29 & 30 August 5 September 8 & 9 October 7 November 4
NIH Post-Doctoral Position

Anti-Vβ Reagents In Rhesus Models of Autoimmune and Retroviral Diseases

The Laboratory of Molecular Biology has developed novel immunotoxins directed at components of the rhesus T cell receptor complex which induce profound peripheral T cell depletion in vivo. The aim of this project is to investigate rhesus models of autoimmune diseases which exhibit unique Vβ (or Vα) restrictions, identify these restrictions and quantify the effects of depleting the involved subset on the disease process. The role of preferential Vβ susceptibility in SIVmac infection is also of interest. Junior or Senior positions are available and diverse backgrounds will be considered. Please forward curriculum vitae and the names of three references to:

Dr. David M. Neville Jr.
Section on Biophysical Chemistry
Laboratory of Molecular Biology
National Institute of Mental Health
Bldg. 36 Room 1B08
9000 Rockville Pike
Bethesda, Maryland 20892.

Inquiries by FAX will be accepted at 301-402-0245.

NIH is an equal opportunity employer

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PHARMACOKINETICIST / PHARMACOLOGIST

Athena Neurosciences, Inc., is a rapidly growing research-based company committed to the discovery and development of new products for the diagnosis & treatment of neurological diseases.

We are seeking a Pharmacokineticist/Pharmacologist to join our team of drug discovery & preclinical scientists. Duties include: Conducting preclinical studies of drug absorption, distribution, metabolism and excretion; supporting drug discovery by evaluating correlations between pharmacokinetics & pharmacodynamics; managing external collaborations and contract research in the field; supervise / oversee a small group of research associates.

The successful individual will possess a Ph.D. in Pharmacology, Biochemistry, Pharmaceutical Science or related discipline; minimum of 3 years of pharmaceutical company experience in pharmacokinetics or drug metabolism. Thorough understanding of GLPs is desired.

Athena Neurosciences offers an innovative and exciting professional, scientific environment in addition to competitive salaries, benefits and equity participation. Please reference ad #SCI507 when sending your CV to: Athena Neurosciences, Inc., Attn: Human Resources, 800F Gateway Boulevard, South San Francisco, CA 94080. EOE.

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MARINE SCIENTIST—TWO POSITIONS

The West Coast National Undersea Research Center, at the University of Alaska Fairbanks, is a recently established center for NOAA’s National Undersea Research Program. The Center’s mission is to promote, facilitate, and support quality undersea research along the West Coast of the United States including the western Arctic plus Antarctica.

SCIENCE DIRECTOR: The Science Director will be responsible for the direction and coordination of the undersea science program for the U.S. West Coast including the western Arctic plus Antarctica. Duties include (a) develop effective communication with research community, (b) develop and implement programmatic research themes, (c) prepare annual announcement of research opportunities and coordinate proposal review, (d) assist with preparation of the Center’s annual report and proposal to NOAA, and (e) some supervision of Center staff. The Science Director will report to the Center Director. The Science Director will have the opportunity to maintain an independent research program.

STAFF SCIENTIST: The Staff Scientist’s duties will be to interact and correspond with scientists interested in undersea research, particularly in the region of Oregon and Washington. The Staff Scientist will represent the Center at selected professional meetings and workshops. Also, the Staff Scientist will assist the Director and Science Director in: a) preparing the annual announcement of research opportunities, b) conducting peer reviews of research proposals received, c) writing the annual Center proposal to NOAA, d) responding to inquiries on the Center to the principal investigators, and drafting the annual report to NURP. The Staff Scientist will have the opportunity to maintain an independent research program.

Both positions are 12-month per year appointments. Required qualifications include an advanced degree (Ph.D. preferred) in Oceanography, Fisheries, or Marine Sciences and research experience with manned submersibles and ROVs or other undersea technology. Review of applications will begin June 7, 1993, and continue until the position is filled. Submit resume and addresses of three references to: Director, West Coast National Undersea Research Center, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks, Fairbanks, AK 99775–1990.

The University of Alaska is an AA/EO employer and educational institution.

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AFFymax Research Institute is an innovative venture dedicated to the development of new technologies which will accelerate the process of drug discovery. AFFymax offers a creative and stimulating environment for talented people.

Staff Scientist – Antibody Display and Engineering

Currently we have a position open for a Staff Scientist to lead a group engineering antibodies using phage display libraries. The projects involve the construction of antibody-phage as libraries and as single clones from hybridomas. One goal is to improve antibody catalysis through various types of antibody library engineering combined with library screening or selection tools. The antibody engineering program is part of team including chemists, molecular biologists and a hybridoma laboratory. We have strong collaborative links with leading academic and industrial groups in the fields of antibody catalysis and engineering.

Qualifications: PhD with a strong background in molecular biology and several years experience in antibody phage display libraries. Postdoctoral experience is preferred.

Positions are also available for Research Assistant and Associates (BS & MS level) with similar experience to support this program.

AFFymax offers many of the benefits of a world class academic environment and the potential to develop new therapeutics. Please refer to Job Code PS117 and send your resume to: AFFymax Research Institute, Human Resources Dept., 4001 Miranda Avenue, Palo Alto, CA 94304. Equal Opportunity Employer.
Listed below are a few of the outstanding opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Molecular Biology and Protein Biochemistry**
B. J. Song, PhD

Senior Staff (assistant professor equivalent) or Staff Fellow position is available to study the biochemical and genetic mechanisms of key metabolic enzymes affected by alcohol and other pathological states. Enzymes being studied include ethanol-inducible cytochrome P450 and thiamine dependent enzymes involved in glucose (cerebral energy) metabolism. Previous experience in protein biochemistry or molecular/cell biology preferred. Laboratory of Clinical Studies (OE-33), NIAAA, 12501 Washington Avenue, Room 31, Rockville, MD 20852.

**Molecular Epidemiology**
Scott R. Diehl, PhD

Senior Staff (assistant professor equivalent) or Staff Fellow positions to assist in the development and adaptation of molecular biology techniques to the study of oral and craniofacial diseases. Gene mapping will include such conditions as periodontal diseases, cleft lip/palate, and oral cancer. Molecular Epidemiology and Disease Indicators Branch (OE-33), NIDR, 5335 Westbard Avenue, Westwood Building, Room 718, Bethesda, MD 20892.

**Cellular and Developmental Biology**
Paul E. Love, MD, PhD and Heiner Westphal, MD

Transgenic and gene targeting methods are being used to study thymocyte development with special emphasis on the role of receptor mediated signal transduction. In addition, these mice are serving as models for investigating the mechanisms of tumor-induced immune defects in humans. Applicants should have a background in immunology and/or molecular biology and less than five years of postdoctoral experience. Laboratory of Mammalian Genes and Development (OE-33), NICHD, Building 6B, Room 215.

**Immunotoxin Therapeutics**
David FitzGerald, PhD and Ira Pastan, MD

Immunotoxins are being developed for treating cancer and other diseases, offering an opportunity for both basic and applied research. Current projects include: clinical testing of existing immunotoxins; improving existing immunotoxins; developing new recombinant immunotoxins using molecular biology techniques; and studying the basic science of toxin action. Laboratory of Molecular Biology (OE-33), NCI, Building 37, Room 4E16.

**Laryngeal Neurophysiology and Anatomy**
Christy L. Ludlow, PhD

Studies aimed at the pathophysiology and treatment of idiopathic speech and voice disorders focus on laryngeal anatomy and physiology, biomechanical modeling, speech physiology, and brain activity during speech. Neuroanatomical studies will permit identification of inter-neurons in a sensorimotor pathway. Additional opportunities are available to conduct both human and basic neurophysiological and anatomical studies. Voice, Speech, Language and Laryngology Branch (OE-33), NIDCD, Building 10, Room 5D38.

**Neurobiology and Neurophysiology**
Chris McBain, PhD

The role of voltage and ligand gated ion channels in the regulation of neuronal excitability is being studied. Techniques used include whole cell patch clamp recordings from CA3 pyramidal neurons and interneurons in the hippocampal slice and identified acutely dissociated neurons. In addition, the properties of voltage gated potassium channels will be studied in transfected cell lines. Background in neurophysiology with knowledge of electrophysiological techniques is required. Laboratory of Cellular and Molecular Neurophysiology (OE-33), NICHD, Building 49, Room 5A78.

**Molecular Toxicology**
Masahiko Negishi, PhD

The structural basis for the substrate specificity of mammalian P450 is being studied using site-directed mutagenesis, heterologous expression, and biochemical and spectral analysis of P450 mutants. Candidates with interest in the study of enzymes containing prosthetic groups, and experience in structural biology, biochemistry, chemistry, molecular biology, or pharmacology, are encouraged to apply. Less than five years of postdoctoral experience is required. Laboratory of Reproductive and Developmental Toxicology (OE-33), NICHD, P.O. Box 12233, Building 17, Room 1723, Research Triangle Park, NC 27709.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference by Internet (cu.nih.gov) or via modem (1,3014022221) or 1,8003582221. The settings for modem access are "7,Even,1". When connected to NIH, type in "yrl00" at the connect message, "F5E" at initial, and "AJL1" at account.

The Postdoctoral Research Fellowship Opportunities catalog may be requested from the address below. An electronic version of the catalog may be accessed via the network-based (Internet) Gopher Information System. To access the NIH Gopher server, Gopher client software (available via anonymous ftp "boombox.micro.umn.edu") must be running on your computer and configured to point to 'gopher.nih.gov', port '70'. Select NIH Information to reveal the NIH Office of Education directory. Those interested in receiving information on other postdoctoral opportunities, clinical training opportunities, or accessing Gopher may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (e.g., MD, DO, DDS, or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
This first-time special issue on development in AIDS research focuses on the scientific and social issues of HIV vaccine development as well as the mechanisms of cell killing by HIV. Also, AIDS-related topics will be covered in SCIENCE's News and Perspectives sections.

By including your recruitment ad in this special edition, you'll be accomplishing several things. First, your ad will be a part of this issue that will be of special interest to scientists involved in the massive AIDS research effort. Next, your ad will reach over 12,000 scientists attending the Ninth International Conference on AIDS, as well as the 4,000 attendees of the ASBMB meeting. Advertisers from outside the U.S. should take advantage of our special International Career Opportunities bannered advertising pages. Consider this a must-run SCIENCE issue.

Bonus Distribution:

Ninth International Conference on AIDS,
7–11 June 1993, Berlin, Germany
ASBMB (American Society for Biochemistry and Molecular Biology) meeting,
30 May–3 June 1993, San Diego, CA

25% Discount

If you've run a recruitment ad within the last eight weeks, repeat it and earn a 25% discount. If you've found it necessary to make adjustments to your ad, you may still be eligible for the discount because of our new, more flexible policy—call us to find out!

For information call:
U.S.: Debbie Cummings at 202-326-6541
Europe: AnneMarie Vis at +44 223 302 067
The Arctic Research Consortium of the United States (ARCUS) is seeking a highly qualified individual to serve as its President and Chief Executive Officer. ARCUS is a national non-profit corporation, consisting of member institutions involved in arctic research and education. ARCUS provides leadership in and promotion and facilitation of these activities.

The President provides leadership for the Consortium, is responsible to its Board of Directors, manages the affairs of ARCUS, and supervises its staff. The President recommends and implements the programs and policies established by the Board of Directors; develops and administers ARCUS programs and activities; represents the corporation in contract, grant, and financial negotiations with government and private funding and banking entities; and interacts with the arctic research community to assess and advance its needs and priorities. The President represents ARCUS interests and concerns to other groups and organizations to ensure that quality programs and services exist to meet the needs of the arctic research and education community.

Applicants are required to have a Ph.D. or its equivalent. Applicants should also have at least five years of experience in the design and conduct of research in the Arctic and at least five years of experience in the design and management of interdisciplinary research. Demonstrated excellence in the ability to communicate and function effectively with diverse constituencies within the scientific and education community, the policy making community, and the general public is highly desirable. Successful experience in the preparation, negotiation, and management of grants and contracts, as well as in direct responsibility for fiscal management, is a must.

Salary will be negotiated. ARCUS offers a competitive benefits package. ARCUS is currently based in Fairbanks, Alaska.

Send applications, including curriculum vitae and four references, for receipt by 15 May 1993, to:

President Search Committee
Dr. Mark F. Meier, Chair
ARCUS, Inc.
600 University Avenue, Suite B
Fairbanks, AK 99709

ARCUS is an Equal Opportunity, Affirmative Action Employer and invites and encourages applications and nominations from women and under-represented minorities.

Infectious Diseases Research

Pfizer, a U.S. based multinational pharmaceutical company, has several immediate openings in its expanding Central Research Division Laboratories located in Groton, Connecticut.

PhD Molecular Biology

Play a key role in using molecular approaches to address significant problems related to bacterial resistance mechanisms, pathogen-specific diseases, and host-pathogen interactions. PhD and 2 years post-doctoral experience are required. Supervisory experience, the ability to communicate as well as to operate successfully in a multidisciplinary environment, and the desire to identify and pursue approaches that would contribute significantly to antibiotic discovery efforts are essential. Background in bacterial physiology and/or biochemistry is desired.

BS/MS Molecular Biologist

Play a key role in our expanded efforts in applying modern molecular approaches to the identification of new antimicrobial targets and the characterization of current antibiotic resistance mechanisms. MS or BS with 3-5 years experience using state-of-the-art molecular biology techniques is required.

BS/MS Microbiology

Play an important role in evaluating new antibiotic leads generated from our Discovery program. Responsibilities will include running our in vitro and in vivo screens and taking part in the implementation of new molecular technologies for the evaluation of antimicrobial agents. BS plus 2 years experience working in a microbiology laboratory is the minimum requirement.

In addition to a stimulating research environment, we offer a competitive compensation and benefits package, including generous relocation assistance to this southeastern Connecticut shoreline community. Qualified applicants may send a resume and cover letter, a description of your experience, and names of three references, to: Ms. Ellen Buller, Employee Resources Supervisor, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.
St. Michael's Hospital, a fully affiliated teaching hospital of the University of Toronto and the Department of Medicine at the University of Toronto, seek to appoint an established investigator in the area of Nephrology Research. The successful candidate will be expected to continue a major independent research program in one of the following areas:

1. Molecular immunology (transplantation)
2. Biology of fluid and electrolyte or acid-base transport
3. Cellular and molecular biology of the vascular endothelium
4. Molecular biology of signal transduction

Individuals with either a Ph.D., M.D. or both will be considered. Candidates will be expected to have established a successful career in investigative nephrology, with proven ability to attract external agency peer-reviewed operating grant funds and to supervise research trainees. It is expected that the successful candidate will be appointed as a Professor in the Department of Medicine (Division of Nephrology) at the University of Toronto, and as a staff member in the Division of Nephrology at St. Michael's Hospital, and will be the incumbent of an endowed chair—the Keenan Chair in Medicine. Appropriate laboratory space will be identified, and financial support for laboratory facilities will be made available to the successful candidate. The successful candidate will also have the opportunity to interact in a collaborative manner with other scientists at the University of Toronto. The anticipated appointment date is on or about September 1, 1993. The University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Interested applicants should forward a cover letter, curriculum vitae, and a list of three referees as soon as possible, but no later than July 1, 1993, to the attention of:

Mr. Alan Dilworth
Chair, Keenan Search Committee
St. Michael's Hospital
Research Institute
30 Bond Street
Toronto, Ontario,
M5B 1W8

PENNSYLVANIA UNIVERSITY

Chair
Department of Biochemistry and Biophysics

The University of Pennsylvania School of Medicine is initiating a search for Chair of the Department of Biochemistry and Biophysics. The Search Committee is looking for a leader of national stature who has the ability to catalyze the development of new initiatives in molecular and structural biology at Penn. We seek a candidate who can provide academic leadership in the disciplines of Biochemistry and Molecular Biology and who can build outstanding education and research programs. This Search is supported by a major institutional commitment to this key basic science department.

The University is an equal opportunity, affirmative action employer. Women and minority candidates are encouraged to apply.

Please send your curriculum vitae together with the names of three references to:

Neal Nathanson, M.D.
Chair, Biochemistry and Biophysics
Search Committee
Chair, Department of Microbiology
208 Johnson Pavilion
36th Street and Hamilton Walk
Philadelphia, PA 19104-6076

VIAGENE, INC., is engaged in developing gene transfer therapeutics for viral diseases, cancers and genetic disorders. Our first gene transfer product for combating HIV is entering clinical trials and we expect to be one of the first companies to bring such products to market.

Qualified candidates will have a Ph.D. or M.D./Ph.D. with emphasis in Cell Biology, Immunology, and Hematopoiesis, and experience in Biomedical Research in an academic or industrial setting.

Located in San Diego, California, one of America’s most attractive centers for biomedical research and education, Viagene offers competitive salaries and an excellent benefits package, including a stock option plan.

Please forward your CV to: Attn: Human Resources, Viagene, Inc., 11075 Roselle Street, San Diego, CA 92121. EOE M/F/D/V.

PROMEGA CORPORATION, leading the biotechnology industry worldwide, is currently seeking the following qualified individuals to join a dynamic and rapidly expanding company:

DIRECTOR OF FERMENTATION

Manage all fermentation operations, maintain corporate strain collection and manage strain development program, and develop quality improvement program for fermentation including end product oriented quality assurance. Five years' experience in fermentation including up to 5,000 liter scale and Ph. D. or equivalent experience in microbial physiology or related area. Prefer experience in training in biochemistry, analytical techniques, fermentation or process engineering, molecular biology or expression of recombinant proteins; independent, self-starter individual with solid practical background in fermentation engineering, microbiology, recombinant protein production, quality control; demonstrated leadership and team building experience; prior management of fermentation facility and operations; experience with computerized fermentation process development and related analytical equipment; and evidence of excellent communication and organizational skills.

SENIOR MICROBIOLOGIST

Maintain company-wide microbial strain collection and perform Q.C. testing to ensure identity and quality of strains as well as development and implementation of end product based Q.C. program for fermentation, M.S./Ph.D. or equivalent in microbiology with 3 years' industrial lab experience and strong background in biochemistry. Prefer independent, self-starter with background in microbiological preservation and cultivation; experience in molecular biology and/or enzyme biochemistry; communication skills; and supervisory management experience.

We offer a competitive salary, comprehensive benefits, and a challenging, high-growth environment in our modern Midwestern facilities.

To apply, forward resume to: PROMEGA CORPORATION, HUMAN RESOURCES/ RD, P.O. Box 7879, Madison, WI 53711-7879. Equal opportunity employer. (No agency solicitation accepted).
Loan Repayment Program for AIDS Research

➤ Almost everyone in the biomedical research community is familiar with the National Institutes of Health (NIH) and the number of grants and contracts we award to researchers throughout the country. Did you know that in this fiscal year close to 15% of our $1 billion HIV/AIDS budget is devoted to HIV/AIDS research activities conducted at NIH’s 306 acre campus in suburban 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.O.’s, and D.V.M.’s), and its 500-bed clinical center is home to more than half of the research beds in the country.

➤ Did you also know that the NIH offers the only Federally sponsored, research-based loan repayment program? NIH’s Loan Repayment Program for AIDS Research (LRP) enables physicians and scientists to receive repayment of their educational loans—up to $20,000 per year—when they join our HIV/AIDS research team for a minimum service period of only two years. Other LRP benefits include reimbursement for Federal, State and local tax liabilities, and all LRP benefits are made in addition to attractive Federal salaries and associated benefits. Positions may be in basic, clinical, laboratory or subspecialty research programs at more than eighteen NIH institutes.

➤ The NIH provides exceptional training opportunities in basic 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; a longitudinal study of the neurological dysfunction and neuroimmunological profile in HIV-infected, asymptomatic individuals; the design and synthesis of synthetic peptide polymers for the production of anti-HIV vaccines; and a randomized trial of a sustained-released intraocular drug delivery system for ganciclovir therapy of cytomegalovirus.

➤ The LRP may be just the program you are seeking to help manage your educational debt burden. Telephone the LRP Information Line, 24-hours a day toll-free, at 800-528-7689, to obtain our recently updated Applicant Information Bulletin, a summary of our HIV/AIDS research accomplishments and plans, and a User’s Guide to the NIH EDNET, an electronic bulletin board listing NIH’s postdoctoral training opportunities.

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

Kernforschungszentrum Karlsruhe GmbH (KfK)

Das KfK ist eine von der Bundesrepublik Deutschland und dem Land Baden-Württemberg gemeinsam getragene, überwiegend anwendungsorientierte Grobforschungseinrichtung mit etwa 3,700 Mitarbeitern, davon über 1,200 Wissenschaftler und Techniker. Es finanziert sich aus institutionellen Zuwendungen des Bundes und des Landes und eingeworbenen Drittmitteln. Forschungsschwerpunkte sind Umwelt-, Energie-, Mikrosystemtechnik und Grundlagenforschung.

Im Vorstand des KfK ist die Position des

Vorstandsmitglieds


Bitte senden Sie Ihre Bewerbung oder Interessebekundung bis zum 31. Mai 1993 an den

Vorsitzenden des Aufsichtsrats der Kernforschungszentrum Karlsruhe GmbH (KfK)
c/o Bundesministerium für Forschung und Technologie
Herrn Ministerialdirektor Dr. J. Rembser
-persönlich-
Postfach 200706
D-5300 Bonn 2
Telefax: 49-228-59 36 05
Postdoctoral Program - Adhesion Biology

Selected candidates will study the role of adhesion receptors involved in interactions between leukocytes, platelets and endothelium. You will also explore the structural basis of selectin-mediated adhesive interactions using a broad range of molecular techniques. Applicants should possess a Ph.D. in biochemistry, biophysics or cell biology. Molecular biology skills would be advantageous. Refer to Position Code #159.

Research Associates

Applicants for the following programs should possess a BS/MS degree in Molecular Biology, Virology, Biochemistry or related discipline.

Antiviral Program - Investigate the molecular targets for antiviral drug discovery and evaluate lead antivirals in cell culture models of viral infection. Using recombinant DNA methods, identify and study critical viral and/or cellular proteins involved in viral pathogenesis. Elucidate molecular mechanisms of antiviral drug resistance. Refer to Position Code #116.

Recombinant Proteins - Use recombinant DNA methods, molecular genetics and cell culture to engineer and optimize the production of recombinant polypeptides (including antibodies and cell adhesion molecules) in various systems such as E.coli, insect and mammalian cells. Structure and function relationship analysis of protein(s) involved in protein secretion/translocation of E.coli. Refer to Position Code #158.

Selected candidates will enjoy an excellent salary and benefits package, as well as a stimulating, multi-disciplinary research environment. For consideration, please forward your resume (refer to the appropriate Position Code in your cover letter) and salary history to: THE UPJOHN COMPANY, Corporate Recruiting, 7000 Portage Road, Kalamazoo, MI 49001. An Equal Opportunity Employer.

Sandoz Agro, Inc., is a worldwide leader in the development of environmentally sound biotechnological and chemical products for agricultural crop protection. We currently have a position available at our corporate headquarters located in the NW Chicagoland area.

Metabolism Scientist

We are seeking a candidate with a B.S., M.S. or Ph.D. in Chemistry, Biochemistry or related field for a scientist position in the Metabolism/Pharmacokinetics laboratory. The qualified candidate will be knowledgeable in TLC, HPLC and GC with 2-8 years' experience in the investigation of the fate and metabolism of 14C-radio-labelled chemicals in animals and other substrates. An understanding of IR, NMR and MS spectra is preferred as well as good communication and problem-solving skills. Knowledge or experience of FIFRA and GLP regulations is desirable. Must be willing to work with laboratory animals. Dept. PEL-05


Groupe ESIEE Paris

European Center for Advanced Electrical Engineering Education

Associate Professors

Assistant Professors

now being recruited for teaching/research positions in the fields of:

- Control Engineering and Real Time Systems
- Integrated Systems and Microtechnology
- Networks and Operating Systems
- Signal Processing and Optoelectronics

at ESIEE, a French “Grande Ecole” for advanced Education and research in Electrical and Electronic Engineering, the main center in suburban Paris, with associated institutions in France and Europe.

Candidates should have a PhD and relevant teaching experience, as well as the ability to participate in or to direct research. Previous experience in a University, industrial or research milieu is necessary, and international experience a decisive advantage. Preference will be given to those candidates who have knowledge of written and spoken French.

Successful candidates will join established teams for curriculum design, teaching and research activities in a modern well-equipped environment.

Applications will be accepted for both full-time and part-time posts.

Candidates should send a letter of application together with curriculum vitae and the names of two referees to:

Directeur du Groupe ESIEE, B.P 99 - Cité Descartes, 93162 Noisy-le-Grand Cedex, France
Tel: (33). 1.45.92.66.10—Fax: (33).1.45.92.66.99
Applications should reach ESIEE by June 1st 1993.
Successful candidates will be informed of their appointment by 23rd July 1993.

Chambre de Commerce et d'Industrie de Paris

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Our continuous growth has resulted in the following opportunities in our Anaheim facility:

- R&D Group Leader
- Senior Scientist (Rapid Enzyme Immunoassays)
- Research Scientists

Group Leaders will have advanced degrees (PhD preferred) in chemistry, biochemistry or life sciences and supervisory experience in the industrial sector.
Demonstrated research emphasis in protein chemistry, immunology, clinical chemistry or membrane technology a plus.
To apply, send your CV or resume to: Bio-Rad Laboratories, Attn: Paul Krueger, Dept. 143, 3726 E. Miraloma Blvd., Anaheim, CA 92806. EOE M/F/D/V.

Bio-Rad Laboratories
INTELLIGENT SYSTEMS MANAGER

The Oak Ridge National Laboratory (ORNL), a recognized leader in multidisciplinary research and development, is seeking a Group Leader for the Intelligent Systems Section in the Engineering Physics and Mathematics Division. The section's research activities concentrate on a broad spectrum of challenging areas ranging from intelligent interfaces between humans and complex systems to autonomous mobile robots, intelligent information processing, as well as biomedical applications of advanced pattern recognition systems.

Responsibilities of the group leader include providing technical leadership and management for an expanding group of five scientists and engineers performing research and development in the areas of high-performance computing for robotics and intelligent systems, computer vision and sensor integration, sensory-motor control, machine learning and pattern recognition.

The position requires a PhD in computer science, applied mathematics, electrical engineering, or related interdisciplinary field such as robotics with at least 8 years experience in one of the following areas: computer vision, pattern recognition, sensor-based robotics or applications of machine learning. The successful candidate should have an excellent publication/citation record and demonstrated technical management skills. An important aspect of the position will be developing and executing research and development projects with an interdisciplinary group of creative PhD scientists and engineers.

ORNL is a multi-purpose research facility managed by Martin Marietta Energy Systems, Inc., for the US Department of Energy. ORNL offers a competitive compensation and benefits package, including relocation. For immediate consideration, send your resume to:

J.K. Johnson
Oak Ridge National Laboratory
Dept. SCI-507
P.O. Box 2008
Oak Ridge, TN 37831-6216

ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.

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CANCER PREVENTION FELLOWSHIP PROGRAM

The Division of Cancer Prevention and Control (DCPC) is accepting applications for the Cancer Prevention Fellowship Program (CPPP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for:

Master of Public Health training (at accredited university programs); Participation in the DCPC Cancer Prevention and Control Academic Summer Course (open to all physicians and scientists interested in learning the principles and practice of cancer prevention and control); Working at NCI directly with individual preceptors on cancer prevention and control projects; Field assignments in cancer prevention and control programs at other institutions. Funding permitting, as many as ten Fellows will be accepted for up to three years of training, beginning July 1, 1994. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

ELIGIBILITY

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

OR

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

PLUS

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

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

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

**Further inquiries: Mrs. Barbara Redding, (301) 496-8640**

DEADLINE FOR RECEIPT OF APPLICATIONS: SEPTEMBER 1, 1993

NIH is an Equal Opportunity Employer
POSITIONS OPEN

POSTDOCTORAL POSITION IN CELLULAR NEUROSCIENCE

Ongoing active research program seeks a postdoctoral student with interest in combining physiological and/or molecular biological approaches with ultrastructural immunocytochemistry in the study of neuronal function and/or cellular and molecular biology. The current research focuses on dopamine and opioid peptides in relation to central autonomic regulation, neuropsychiatric disorders, and drug abuse. Advanced training in intracellular and molecular biology, or pharmacology will be most complementary to the advanced training provided in electron microscopic immunocytochemistry. Please send curriculum vitae to: Virginia H. Pickel, Ph.D., Department of Neurology and Neuroscience, Cornell University Medical College, 422 East 69th Street, New York, NY 10021. Equal Opportunity Employer/Affirmative Action/NIH/PHS/CRD.

POSTDOCTORAL POSITION available for at least 2 years starting July 1, 1993, to carry out cellular and chemical studies on the role of iron in the mechanism of oxidation damage caused by the antioxidant agents bovine and ascorbyl hexahydroxy in tumor and heart cells. Prof. G. F. Fenton, Department of Chemistry, University of Wisconsin--Milwaukee, Milwaukee, WI 53201. Equal Opportunity Employer.

POSTDOCTORAL POSITION available summer/fall 1993 to investigate modulation of NMDA receptor activity in the vertebrate visual system. Experience with some electrophysiological techniques is desirable. Send curriculum vitae and names of three references to: Dr. Elizabeth Deebeli, T.H. Morgan School of Biological Sciences, University of Kentucky, Lexington, KY 40506. FAX: (606) 257-1717, Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION is available for research in a neurophysiology laboratory studying interactions between cardiovascular and pain regulatory systems. Candidates with expertise in neurochemistry of pain are available, although research will be the primary responsibility. Please send curriculum vitae and references to: Dr. C. Castele, University of Arkansas for Medical Sciences, UCOM 6000, University of South Alabama, Mobile, AL 36688–0002. USA is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MITOCONDRIAL MOLECULAR BIOLOGY

A postdoctoral position is available beginning May 1993 to study the initiation of protein synthesis in animal mitochondria. Techniques in mitochondrial biology are available, although research will be the primary responsibility. Please send curriculum vitae and names of three references to: Dr. Gilbert Dickson, Medical College of Georgia, Department of Chemistry C88, 3290, University of North Carolina, Chapel Hill, NC 27599. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available for studies of sphingolipid function in yeast, including roles in protein trafficking and signal transduction. Experience in membrane biochemistry or molecular biology is desirable. Send curriculum vitae and the names of three references to: Dr. Robert Lester, Department of Biochemistry, University of Kentucky Medical Center, Lexington, KY 40536–0044. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for 1 to 3 years to study the functional domains of G-protein coupled receptors. Site-directed mutagenesis and eukaryotic cell line expression will be performed in coordination with a multi-laboratory, interdisciplinary approach incorporating molecular modeling, pharmacology and protein chemistry. Strong molecular biology background essential. Send curriculum vitae, publications and three references to: Dr. Stuart C. Sealfon, Fishberg Center of Neurobiology, Box 1065, The Mount Sinai Medical Center of New York, 1 Gustave L. Levy Place, New York, NY 10029–6574. An Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY

Study of mammalian cellular and HIV DNA replication proteins with respect to mechanism of action, response to antiviral agents and cellular regulation. Viral proteins are generated by expression in bacteria. Procedures involve preparation of model DNA and RNA substrates, mutagenesis, cloning, polymer chain reaction and active site photolabelling. Submit complete curriculum vitae and three references to: Dr. Robert Androphy, Department of Biochemistry, Box 607, University of Rochester Medical Center, Rochester, NY 14642.
Post-Doctoral Position

This position involves the study of neuronal cytoskeleton structure and function. Areas of research include cytoskeleton abnormalities in neurodegeneration and the role of phosphorylation in neuronal skeleton structure-function relationship. Applicants must have a strong background in biochemistry/protein chemistry. This position is available immediately and offers an academic appointment at Harvard Medical School.

Please send curriculum vitae and names of three references to: R.K. Sihag, Ph.D., Laboratories for Molecular Neuroscience, McLean Hospital, 115 Mill Street, Belmont, MA 02178-9106. Fax: (617) 855-3299.

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Regulatory Affairs

Cytel is a biotechnology company committed to the discovery, development and commercialization of immunotherapeutics for the treatment of serious human disease. Our strength is in the integration of molecular immunology with leading edge pharmaceutical technologies.

This is a unique opportunity for an experienced hands-on regulatory affairs professional to play a key role at Cytel. The individual we are seeking will serve as our primary FDA contact and as such will be responsible for coordinating all activities necessary to obtain drug approval including preparing and filing of IND/NDA/PLA submissions. In addition to managing the assembly, review and submission of regulatory documentation for FDA compliance, this position requires heavy participation on project teams to provide regulatory strategy and leadership to Cytel medical, scientific and technical personnel.

The successful candidate should have a minimum BS or MS in a relevant medical or biologic science with 5+ years industrial experience in drug regulatory affairs including proven experience in negotiating with FDA reviewers. Experience with quality assurance and establishment of documentation systems is also required. Experience with biologics in addition to drugs is highly desirable. Strong communication, negotiation and supervisory skills are essential.

Cytel offers competitive salaries, fully paid medical and dental benefits, stock options, and an employee stock purchase plan. Our state-of-the-art research and development facility is located in San Diego's biotechnology center near La Jolla. To explore a career with Cytel, please send your curriculum vitae to: Stephen H. Israel, Vice President, Administration, Cytel Corporation, 3525 John Hopkins Court, San Diego, CA 92121. We are an equal opportunity employer.
UNIVERSITÄT FÜR BODENKULTUR WIEN


Voraussetzungen für die Bewerbung sind:
1. die Verwendung entsprechendes in- oder ausländisches Doktorat
2. eine an einer einer österreichischen Universität erworbene oder gleichwertige ausländische, Lehrbefugnis oder eine Lehrbefugnis als Universitätsdozent gleichwertende wissenschaftliche Befähigung für das Fach, das der zu besetzenden Planstelle entspricht, und
3. der Nachweis der pädagogischen Eignung.

Bewerber sollen als Universitätslehrer in diesem Fach tätig sein oder über besondere Qualifikationen in Lehre und Forschung auf diesem Gebiet verfügen.

Bewerber, die keine Lehrbefugnis an einer Universität besitzen, müssen die geforderten wissenschaftlichen und didaktischen Fähigkeiten durch Veröffentlichungen in Fachzeitschriften und durch den Nachweis von Vortragstätigkeiten bei Fachveranstaltungen belegen.

Es wird weithin erwartet, dass die Bewerber in der Lage sind, eine Abteilung oder ein Institut administrativ zu führen, mit den anderen Instituten der Fachgruppe und der übrigen Universität und mit der forstlichen Praxis zu kooperieren, internationalen Kontakt zu pflegen und die wissenschaftlichen Nachwuchs zu fördern.

Die Universität für Bodenkultur Wien strebt eine Erhöhung des Frauenanteils in ihrem Personalstand an und lädt daher fachlich einschlägig qualifizierte Wissenschaftlerinnen ausdrücklich ein, sich zu bewerben.

Bewerbungsschreiben, die insbesondere auch auf die Zukunftsperspektiven einer allfälligen Tätigkeit an der Universität eingehen sollen, sind mit Lebenslauf, Verzeichnis der wissenschaftlichen Veröffentlichungen, Sonderdrucken von 3-5 Schlussarbeiten sowie allfälligen Referenzen und Empfehlungs schreiben bis spätestens 14. Mai 1995 an den Rektor der Universität für Bodenkultur Wien, Gregor Mendelstrasse 33, A-1180 Wien (Fax: (0) 222/36-916-59 oder 34-24-24), zu richten.
The University of Pennsylvania School of Medicine seeks outstanding candidates for the position of Professor and Chair of the Department of Dermatology.

The successful applicant will be of international stature in his/her chosen area of research and will be able to provide academic leadership in the discipline of dermatology. Applicants should have demonstrated qualifications in education, research, administration, and patient care.

The University is an equal opportunity, affirmative action employer. Women, minority and international candidates are encouraged to apply. Letters of interest, CV, and names of references should be sent to:

Stanley Baum, M.D.
Chairman, Dermatology Search Committee
Chairman, Department of Radiology
University of Pennsylvania School of Medicine
3400 Spruce Street
1 Silverstein
Philadelphia, PA 19104-4283

National Center for Human Genome Research
National Institutes of Health
Public Health Service
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Director
Division of Intramural Research
National Center for Human Genome Research

The National Institutes of Health (NIH) invites nominations and applications for the position of Director, Division of Intramural Research (DIR), National Center for Human Genome Research (NCHGR), National Institutes of Health. This is a Civil Service position in the Senior Executive Service (SES), with a salary range of $92,900 to $115,700 per annum. The person selected may also be eligible for Physician's Comparability Allowance of up to $20,000 per year. A recruitment bonus of up to 25 percent of base pay may be available to a non-federal candidate selected for this position, subject to individual approval. A relocation bonus of up to 25 percent may be available to a permanent federal employee who must relocate to accept this position, subject to individual approval. A one year probationary period must be served if the individual selected is not currently in the Senior Executive Service. Members of the Commissioned Corps of the U.S. Public Health Service and SES reinstatement eligible will be considered.

The Director of the Division of Intramural Research Program, National Center for Human Genome Research, National Institutes of Health (NIH) serves under the general direction of the Director, NCHGR as the principal advisor on all matters relating to aspects of human genome research. The Director, Division of Intramural Research (DIR), directs a program of interdisciplinary fundamental and clinical research for the National Center for Human Genome Research. The Director, DIR, serves as the principal advisor to the Institute Director on biomedical and scientific affairs involving the intramural research programs conducted by basic and clinical research investigators in the field of human genetics. The Director, DIR, develops and recommends policies for the execution of the intramural research programs, determines their ongoing effectiveness, and recommends or develops new or revised research programs. In collaboration with senior officials, the Director, DIR participates in the design and implementation of overall Center management policies including program planning, budget formulation, and resource allocation.

For more information contact Mary Glynn at (301) 402-1094. The following forms are required: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These must be submitted to:

Mary Glynn
National Institutes of Health
National Center for Human Genome Research
9000 Rockville Pike
Building 38A, Room 616
Bethesda, Maryland 20892

Applications Must Be Received by COB 5/28/93.

SELECTION FOR THIS POSITION WILL BE BASED SOLELY ON MERIT, WITH NO DISCRIMINATION FOR NON-MERIT REASONS SUCH AS RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, POLITICAL OR MARITAL STATUS, HANDICAP, AGE OR MEMBERSHIP OR NON-MEMBERSHIP IN AN EMPLOYEE ORGANIZATION.

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POSTDOCTORAL ASSOCIATE POSITIONS
THE UNIVERSITY OF IOWA

Please contact the appropriate department to express your specific interest:

ANATOMY: Dr. J. P. Long, Interim Head, Bowen Science Building.

BIOCHEMISTRY: Alan G. Goodridge, Professor and Head, Bowen Science Building.

DERMATOLOGY: John S. Strauss, M.D., Professor and Head; or Kenzo Sato, M.D., Professor, 2 Boyd Tower, General Hospital. A postdoctoral research associate for the study of electrophysiology of cultured cells.

INTERNAL MEDICINE: Openings available in all disciplines in the Internal Medicine Department, College of Medicine, University of Iowa. Contact Francois M. Abboud, M.D., Professor and Head; or Personnel Department of Internal Medicine, SE 321 GH. Phone 319/356-2850.

MICROBIOLOGY: Dr. Michael Apicella, Professor and Head, Bowen Science Building.

NEUROLOGY: Postdoctoral associate positions are available in Cognitive Neuroscience, Neurophysiology, Neurobiology, Cerebrovascular Disease, Epilepsy, Sleep, and Neuromuscular Disease. Antonio R. Damasio, M.D., Professor and Head, 2151 Roy Carver Pavilion.

OBSTETRICS AND GYNECOLOGY: Postdoctoral associate position is available in the Perinatal Research Laboratory. Research area includes the study of hormonal influences on the regulation of vascular tone of the maternal and fetal circulation. Contact Carl P. Weiner, M.D., Professor, Division of Maternal Fetal Medicine, Department of Obstetrics/Gynecology. Phone 319/356-2305.

PATHOLOGY: Dr. Richard G. Lynch, Professor and Chairman, 144 Medical Laboratories. Research activity in all areas of pathology.

PEDIATRICS: Dr. Frank H. Morris, M.D., Professor and Head.

PHARMACOLOGY: Dr. P. Michael Conn, Chairman and Head, Bowen Science Building. Openings in all areas of pharmacology and toxicology.

PHYSIOLOGY AND BIOPHYSICS: Robert E. Fellows, M.D., Ph.D., Professor and Head, Bowen Science Building.

OCCUPATIONAL & ENVIRONMENTAL HEALTH: Positions available for all aspects of occupational and environmental health. James A. Merchant, M.D., Dr. P.H., Director, Division of Occupational and Environmental Health and Institute of Agricultural Medicine and Occupational Health, Department of Preventive Medicine and Environmental Health, 100 Olddale Campus, 126 AMRF, Phone 319/356-4189.

PSYCHIATRY: Postdoctoral associate positions are available in neuroscience, genetics, epidemiology, general hospital psychiatry, and child psychiatry. Robert G. Robinson, M.D., Professor and Head, 2867 John Pappajohn Pavilion.

A Ph.D. or equivalent is required. Desirable qualifications are based on Project Investigator's interest for research. Women and minorities are encouraged to apply. The University of Iowa, College of Medicine, Iowa City, Iowa, 52242, is an Equal Opportunity/Affirmative Action Employer.

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The University of Cincinnati College of Medicine announces the opening of the Chair of the Department of Physiology and Biophysics. The College of Medicine ranks among the top 30 colleges of medicine nationally in grant holdings and has significant interdisciplinary areas of distinction particularly in cell and molecular biology and cardiovascular research. The Department has a long history of excellence in education, training and basic research and the 15 full-time faculty are well supported by extramural grants.

We seek qualified candidates with demonstrated abilities in research, leadership and administration and a strong commitment to teaching. Increased support and growth within the department are expected. Applications from outstanding individuals in any area of physiology and biophysics are welcomed. Individuals able to take advantage of the University's significant investments in the transgenic and gene targeting technologies are particularly encouraged to apply. Applications and nominations are welcomed. Interested individuals should submit a curriculum vitae and the names of three references to:

Jeffrey Cline
Chair, Search Committee
Dept. of Pharmacology & Cell Biophysics
University of Cincinnati
Cincinnati, OH 45267-0575

The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer. Women, minorities, disabled persons, Vietnam era and disabled veterans are encouraged to apply. The UC Medical Center is a smoke-free work environment.
Supervising Professional Environmental Scientist

The Department of Research of the South Florida Water Management District seeks a senior-level scientist to participate in and provide strong scientific leadership to research on the Lake Okeechobee, Kissimmee River, or estuarine ecosystems. M.S. in science with six years of experience, including two years supervision of a professional staff, required; Ph.D. in limnology or related aquatic science discipline and a proven publication record are preferred.

The District offers competitive salaries, excellent benefits, a smoke-free work place, and a sub-tropical environment. New hires will be required to successfully complete a pre-placement drug test. For consideration send your resume INCLUDING YOUR SOCIAL SECURITY NUMBER to: L.M. Starr, Human Resources Division, South Florida Water Management District, P.O. Box 24680, West Palm Beach, FL 33461-4680, or call Dr. Nicholas G. Aumen for further details at (407)687-6601. Equal Opportunity Employer M/F/DV.

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FACULTY POSITION
Molecular Immunologist

The Department of Microbiology of the University of Iowa College of Medicine is seeking applicants for a tenured track position at the level of Assistant Professor in the area of Molecular Immunology. Applicants must have a Ph.D. and/or M.D. degree, postdoctoral experience and a strong record of research accomplishment. Candidates are being sought who are capable of establishing an extramurally funded research program and who have an aptitude for teaching and training graduate students. Those with a special interest in immunology/pathology may be given preference. Women and minorities are especially encouraged to apply.

The University of Iowa College of Medicine is one of the major medical centers in the USA for both research and training. The University has strong programs in immunology, molecular biology, and parasitology. The Department of Microbiology consists of 28 faculty who lead research programs in virology, immunology, pathogenic bacteriology, microbial genetics and microbial physiology and who are major participants in various interdisciplinary programs including a new one in immunology. All of the current immunologists within the Department work in molecular immunology. The Department is under new leadership and will move into newly renovated facilities; the selected candidate will receive a generous start-up package.

Applicants should send their curriculum vitae, statement of research interest and the names and addresses of at least three references, to Dr. Michael A. Apicella, Professor and Head, Department of Microbiology, University of Iowa College of Medicine, 3408 Bowen Science Building, Iowa City, IA 52242-1105. The University of Iowa is an Affirmative Action/Equal Opportunity Employer.
Positions Open

RESEARCH ASSOCIATE AND POSTDOCTORAL FELLOW POSITIONS
INSTITUTE FOR TOXICOLOGY
UNIVERSITY OF SOUTHERN CALIFORNIA

Applications are invited for laboratories investigating the biology and health effects of oxidants and antioxidant. Positions available with:

Enrique Cadmus—biochemistry of oxidant injury; quinone biochemistry.
Gino Cortopassi—genetic effects of oxidative damage; human mitochondrial and nuclear mutagenesis.
Henry Jay Forman—signal transduction during oxidant stress; molecular regulation of glutathione biosynthesis.

Alex Svean—membrane-peroxidation; phospholipases.

Send cover letter, curriculum vitae, addresses and telephone numbers of two references to: Mye Yasui, Institute for Toxicology, School of Pharmacy, University of Southern California, 1985 Zonal Avenue, Los Angeles, CA 90033. USC is an Affirmative Action/Equal Opportunity Employer.

SANDOZ POSTDOCTORAL FELLOWSHIP IN MOLECULAR TOXICOLOGY

The division of Pathology and Toxicology of the American Health Foundation has an opening for one or two years for a postdoctoral fellow to study molecular effects of pharmaceuticals in relation to their potential hazard to humans. The division has a broad-based program of research and development involving research on peroxisome proliferators, antioxidants, antiestrogens and quinone antibiotics. The laboratory utilizes in vivo, in vitro, biochemical and molecular techniques in these studies. The stipend for the fellowship is $25,000 or greater depending upon qualifications. Candidate should have a highly qualified recent graduate with experience in molecular techniques. Inquiries should be addressed to:

Dr. Gary M. Williams, Director of Medical Sciences, American Health Foundation, One Dana Road, Valhalla, NY 10595. Equal Opportunity Employer. M/F/V/V/ADA.

POSTDOCTORAL FELLOWSHIPS

Postdoctoral positions are available for individuals interested in the study of the molecular mechanism of hormone receptors with special emphasis on vitamin A and "orphan" receptors and their potential ligands. Other projects will include investigation of the roles of the receptors during development and in the adult.

Qualified individuals should possess an M.D. or Ph.D. in biology and have less than three years of postdoctoral experience. A background in molecular biology, protein biochemistry, and/or HPLC analysis is preferred. Send curriculum vitae and three letters of recommendation to: Dr. David Mangelsdorf, University of Texas Southwestern Medical Center, 5333 Harry Hines Boulevard, Dallas, TX 75235-9050.

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A POSTDOCTORAL FELLOW is sought to study neutrophil function, including aspects of signal transduction and enzyme activation. A recent Ph.D. or M.D. with experience in molecular biology is preferred. Some familiarity with techniques of protein analysis and purification is also desired. Position available after July 1, 1993. Send curriculum vitae and names of three references to: Dr. Stephen E. Malawista, Section of Rheumatology, Yale University School of Medicine, New Haven, CT 06510.

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**EXECUTIVE POSITION**

**U.S. FOOD AND DRUG ADMINISTRATION**

The U.S. Food and Drug Administration is seeking an experienced executive to serve as the Director of the Office of Device Evaluation within the FDA's Center for Devices and Radiological Health, located in Rockville, Maryland. As a key member of the Centers' senior staff, the Office Director develops and directs programs to evaluate the safety and effectiveness of products developed by the innovative and technically dynamic medical device industry. The person selected for the position will direct the work of approximately 260 scientific, technical and support employees engaged in the evaluation of new medical devices proposed for marketing or clinical trials. This is a highly visible position requiring an individual who possesses exceptional interpersonal skills and the ability to deal effectively with the regulated industry, members of the medical and research communities, consumer groups, and the United States Congress.

Candidates should have an M.D. or D.D.S.; or a Ph.D. or equivalent experience in a physical science or engineering. Extensive clinical, research, or regulatory experience with medical device technology is desirable.

The Director is a member of the Federal Senior Executive Service with a salary range of $92,900 to $107,300; physicians may also be eligible for a comparability allowance of up to $20,000 per year. A recruitment bonus and relocation expenses may be paid.

If you wish further information regarding this position and how to apply, please call James Keady, FDA Division of Human Resources Management, at (301) 443-1755. Applications will be accepted until June 11, 1993.

This position may also be filled by current or former Commissioned Officers of the U.S. Public Health Service.

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**Molecular Biologist Computing Specialist**

Monsanto Corporate Research, located in St. Louis, MO, is looking for a Molecular Biologist Computing Specialist. Preferably with a Ph.D. in Molecular Biology or Genetics and a demonstrated interest in computational biological genetics work.

We have a sophisticated plasmid database and experimental planning tool, gene sequence analysis packages and other related databases which are used to advance scientific leads. The successful candidate will be able to demonstrate excellent leadership skills in the advancement of scientific leads using computational analysis.

This position requires an advanced degree in Molecular Biology/Genetics, with strong computer analysis skills, and a proven scientific track record. Excellent interpersonal skills and the ability to work in a team environment is also required.

Responsibilities include working with other scientists using computational models in an effort to reduce product discovery time. This person must be a self-starter and interested in championing computational work in research. We offer challenging work in a fast-paced environment.

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**CHIEF COMPARATIVE PATHOLOGY SERVICES**

The University of Chicago, Department of Pathology and The Committee on Comparative Medicine and Pathology (CCMP) is seeking a board certified or board eligible veterinary pathologist for a tenure track position within the Pritzker School of Medicine. The CCMP is a newly created independent academic unit with authorization for 8-12 faculty positions holding D.V.M. degrees. A primary appointment is made in the Dept. of Pathology with a secondary appointment in the CCMP.

The successful candidate will have a proven research record and will devote 75% effort establishing independent research and training programs. Suitable laboratory and office space will be provided by CCMP, along with start up funds to complement pending or existing grant support. Preferred areas of research include, but are not limited to: virology, molecular pathophysiology, basic mechanisms of disease (animal model systems), and molecular immunology.

The appointee will be Chief, Pathology Services for The Animal Resources Center, which occupies approximately 30,000 gross square feet of animal space devoted to the care and use of a wide range of laboratory animal species. The use of barrier maintained rodents with increasing use of transgenics are the predominant population. Grants of over $35M annually support animal related research projects.

This is a unique opportunity for a scientist interested in leading a program of comparative pathology within a major medical center. Opportunities for collaborative and independent research are expandable in the intellectual environment extremely supportive of this program. The rank and salary will be commensurate with credentials. The starting date is negotiable.

Interested candidates should send a C.V., three reprints of refereed articles, names of three references with telephone numbers, and a letter of intent expressing career goals to: Albert M. Jonas, D.V.M., (ACVP), Acting Chair CCMP, The University of Chicago, 5841 S. Maryland Ave., MC 1030, Chicago, IL 60637.

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**SENIOR SCIENTIST FERMENTATION**

San Francisco Bay Area

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This Scientist will work on designs and supervise experiments aimed at Bacillus thuringiensis strain improvements and fermentation for development of microbial insecticides.

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RESEARCH ASSOCIATE for college in northwest Ohio. To conduct research on mouse carcinogenesis by studying oncogene activation and tumor suppressor gene inhibition. Specifically, this will include study of the fundamental mechanisms of chemical carcinogenesis in rodents and human beings; analysis of tumor susceptibility genes; and research on inactivation of tumor suppressor genes in the course of carcinogenesis. Must have Ph.D. (or ABD) in Molecular Biology. Academic program must have included one graduate-level course each in the following areas: Fundamentals of Oncology, Pathology, and Radiation Biology. Must be conversant with such molecular biology research techniques as cell and tissue culture; DNA transfection and transactivation; Southern, Northern, and Western blotting; polymerase chain reactions; DNA and RNA sequencing; oligonucleotide synthesis; CAT assay, gel motility shift assay, and DNA footprinting; and immunoprecipitation. These skills may be obtained by academic courses of reference or employer testimonials. Forty hours per week, 8:00 a.m. to 5:00 p.m., $25,000 per year. Must have proof of legal authority to work indefinitely in the United States. Send resume and course transcripts in duplicate to: J. Davies, JOE #13 82037, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

RESEARCH ASSOCIATE POSITION IN NEUROSCIENCE
The University of Ottawa, in collaboration with Fisons Pharmaceuticals, has a research associate position available immediately to study mechanisms of neuronal injury in peripheral ischemia. The position involves participation in neuroscience research and is open to candidates with a Ph.D. or M.D. Salary commensurate with experience. Submit curriculum vitae, including a statement of research interests to: Dr. A. Buchan, Clinical Studies Building, 1053 Carling Avenue, Ottawa, Ontario, CANADA K1Y 4E9. Telephone: (613) 761-5127; FAX: (613) 761-5189.

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VISION SCIENTIST
VISUAL PSYCHOPHYSICS AND COMPUTATIONAL VISION
The University of Missouri-St. Louis School of Optometry seeks a vision scientist to teach professional and graduate-level courses in visual psychophysics and to develop an active research program in the areas of visual psychophysics and computational vision. Applicants are expected to be willing to generate external support for their research. Rank/level, salary, etc., are negotiable. Send letter, resume, and three letters of reference by May 31, 1993, to: Dr. Jerry L. Christensen, Dean, School of Optometry, University of Missouri-St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121. Equal Opportunity/Affirmative Action Employer, compliant with the Americans with Disabilities Act of 1990.

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