tribute. The book opens with a short and elliptical biography of Mosteller by John Tukey, who notes along the way Mosteller's interests in such works as the Annals of Mathematical Statistics, the Kinsey Report, and the Federalist papers. Chapter 2, to which subsequent contributions make much reference, is a bibliography of Mosteller's publications, categorized as books to which he has made a contribution (n = 56), "papers" he has published (n = 182), "miscellaneous" (n = 36), and reviews (n = 25). William Kruskal then provides some observations on Mosteller as a "scientific generalist," and more technical aspects of his work are addressed by Peri Diaconis and Erich Lehmann, who discuss systematic statistics, slippage tests, mathematical learning theory, and number theory, and by Stephen Fienberg, who discusses Mosteller's concerns regarding statistical methodology and its application in other fields. "Fred as educator" is the title of a contribution by Judith Tanur, who notes that Mosteller was (statistically) assessing new teaching techniques even in the introductory statistics course he taught just before retirement, and in "Fred at Harvard" Fienberg and Hoaglin marshal the assistance of some 20 associates of Mosteller's to provide an account of his 40 years there. A collection of photographs precedes a final chapter edited by Hoaglin, consisting of book reviews of a sort-assessments, ex post facto in some cases by over 40 years, of works that have borne Mosteller's name. The assessments are friendly, and, overall, humor and a sense of statistics as being "fun" pervade the volume.—K.L.


A key event in the "launching of the antibiotic era" was René Dubos's discovery, in 1939, of gramicidin, "the first antimicrobial agent to be obtained from natural sources through rational pursuit." This retrospective volume, stemming from a symposium commemorating that event, brings together essays by some of those who were active in the early developments leading to effective antibiotic therapy. The volume opens with an introduction by Joshua Lederberg that includes an appreciation of Dubos's 1945 treatise The Bacterial Cell. Rollin Hotchkiss, who participated in the effort to purify gramicidin, then offers his own recollections, noting that prior to the appearance of sulfanilamide in 1937 the dominant approach to chemotherapy of bacterial disease had been through the use of toxic agents that had to be rendered less harmful to their recipients by "artful chemical group substitution or modification" and explaining the relevance of soil microbiology (an early interest of Dubos's) to the work on antibiotics. The much-written-about early history of penicillin is the focus of the next two contributions, by Edward Abraham and Norman Heatley, both of whom worked with Howard Florey. Among other matters, Abraham describes the survey of antimicrobial agents undertaken by Florey and Ernest Chain and discusses his own discovery, with Guy Newton (1953), of cephalosporin C; Heatley's essay includes an account of the difficulties of obtaining the needed culture vessels and other equipment during wartime, as well as some comments on the controversy surrounding the contributions of Alexander Fleming. Shifting from the laboratory to the field, the next chapter is an account by Theodore Woodward of the search, in collaboration with the late Joseph Smadel, for a cure (chloramphenicol) for typhus and typhoid fever, an effort centered in Malaya in the years following World War II. In the next chapter George Makaness describes how his work with mononuclear phagocytes, under Florey, led him to become involved in the development of isoniazid as a therapy for tuberculosis. Bernard Davis, who early in his career also was engaged in tuberculosis research, provides an account of that work in the context of a discussion of microbiological research more generally and of Dubos's research style. Among the matters he comments on are the "macho" risk-taking attitude that prevailed in research on infectious diseases, Dubos's onetime skepticism regarding the promise of antibiotics, and his own initial skepticism concerning some of the early work on drug resistance. All the authors provide some reminiscences of Dubos or comment on his work, and in an epilogue to the book Carol Moberg discusses him in his capacity as a "friend of the good earth," referring to his last writings on human ecology. Each of the main chapters includes a brief reference list, and the book contains a number of photographs and other illustrations.—K.L.

Books Received


Personnel Placement

SEND CURRICULUM VITAE AND THREE REFERENCES AS APPLICABLE TO:

ASSISTANT PROFESSOR REPRODUCTIVE ENDOCRINOLOGY
Beth Israel Hospital, Boston, invites applications for a research position in the Division of Reproductive Endocrinology. Requirements include a Ph.D. in physiology, 2 years of postdoctoral training related to reproductive endocrinology, experience in molecular biology, and the ability to set up own laboratory with development of an independent research program over a course of 2 years. Teaching responsibilities at Harvard Medical School are limited to supervision of basic science research by M.D. fellows. Applicants demonstrate willingness to devote time to research and development as well as development of individual areas of investigation. Submit curriculum vitae and telephone numbers of three references to: Joseph F. Montolla, Department of Obstetrics and Gynecology, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215, by 15 May 1991. Beth Israel Hospital is an Affirmative Action/Equal Opportunity Employer.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) DEPARTMENT OF BIOLOGY
Candidates for two tenure-track faculty positions at the level of ASSISTANT PROFESSOR. Candidates should have significant research experience in neurobiology, plant biology, or developmental biology. Applicants should present strong, molecular biology, cell biology, and/or biochemistry. The responsibilities of this position include conduct of an active research program and participation in the teaching program of the department. Applicants should send curriculum vitae and a summary of proposed research, and arrange to have letters sent from three scientists who can provide an evaluation of the candidate's accomplishments and future potential for both research and teaching. Applications and letters should be sent by May 15 to:

Chairman, Biology Search Committee c/o Room 56-511, Department of Biology
Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, MA 02139

MIT is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF UTAH
The Department of Obstetrics and Gynecology and the Program in Human Molecular Biology and Genetics invites applications for an ASSISTANT PROFESSORSHIP REPRODUCTIVE IMMUNOLOGY.

The search is limited to individuals with a research interest in immunological areas relevant to reproduction. Applicants should have a Ph.D. degree and sufficient advanced research training to be able to initiate an independent research program. Interested individuals should send curriculum vitae and three references, and a statement of research interests to:

Stephen M. Prescott, M.D.
Director
Program in Human Molecular Biology and Genetics
Building 500
University of Utah
Salt Lake City, UT 84112

or

James R. Scott, M.D.
Chairman, Department of Obstetrics and Gynecology
University of Utah Medical Center
Salt Lake City, UT 84132

The University of Utah is an Equal Opportunity Employer and encourages applications from members of minority groups and from women.

CELL/MOLECULAR BIOLOGIST
The University of Nevada, Reno (UNR), invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR. This is a 12-month appointment in both the Departments of Biology (75%) and Biochemistry (25%). Candidates should have at least 2 years of postdoctoral experience and the potential to do significant research. The successful applicant will occupy a newly renovated and equipped laboratory space and is expected to develop an externally funded research program. Teaching at the undergraduate and graduate level is expected.

Applicants should submit curriculum vitae, a description of research and teaching interests, reprints, and the names, addresses, and telephone numbers of three references to:

Dr. Leonard Schultze, Academic Dean
Texas Lutheran College, Seguin, TX 78155.

To ensure full consideration applicants should have all materials on file by May 1. Applications must remain open until filled. Affirmative Action/Equal Opportunity Employer. UNR employs only U.S. citizens and aliens lawfully authorized to work in the United States.

PLANT BIOLOGISTS: The Department of Horticultural Sciences at Texas A&M University intends to add additional positions in molecular biology and plant cytogenetics, to an existing cadre of applied and fundamental plant scientists. Three tenure-track positions, plant molecular genetics, postharvest biology, and horticultural products biology, will be filled at the level of ASSISTANT PROFESSOR. Individuals involved will conduct research programs that are oriented toward improvement of crops, and will be flexible in their research interests, and according to the employer's needs. Individuals will be responsible for advising graduate students and postdoctoral associates, and establish and administer aggressive extramural grants programs. Cooperative programs with faculty and research scientists within the department, in other departments on campus, and at off campus research centers will be encouraged. Candidates must have earned Ph.D. degrees in horticulture, plant physiology, genetics, biochemistry, molecular biology, food science, or related fields. Applicants should have a record of productivity and be able to attract federal and extramural funds. Applicants should send curriculum vitae, a statement of research interests, and the names and addresses of three references to:

Dr. David A. Lunsford, Department of Horticulture and Cytogenetics
Texas A&M University
College Station, TX 77843-2133.

Information concerning the positions may be obtained by writing to the above address or contacting Dr. Lunsford at (409) 845-5250 (after 2100). The deadline for applications is 15 June 1991, or until suitable candidates are found. Texas A&M University is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY ASSISTANT PROFESSORS, The Mount Sinai School of Medicine. Applications are invited for two tenure-track positions at the assistant professor level in the Department of Biochemistry, Mount Sinai School of Medicine. We seek individuals with research interest in the regulation of metabolism, study of membrane proteins, enzymology, or signal transduction. The successful applicants will be expected to develop strong independent research programs with extramural funding and to participate in the teaching of medical and graduate students. Current research interests include regulation of gene expression, metabolism of insulin, insulin-receptor action, protein phosphorylation and signaling, Fc receptors and signaling, regulation and mRNA stability, biochemical toxicology of alcohol, hepatitis B virus and HIV replication, molecular mechanisms of energy transduction, conformational properties of proteins and lipids and bacteria. Start-up funds and research space are available for the coming academic year. Applicants should send curriculum vitae, a statement of research interests, and the names and addresses of three references to:

Dr. Andrew Cederberg, Search Committee
Department of Biochemistry, Box 1020, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029. Equal Opportunity Employer.
ASSISTANT PROFESSOR OF BIOCHEMISTRY. Beginning September 1991 to participate in undergraduate and graduate teaching and to initiate a high-impact research program. Research experience and interests may be in any field of biochemistry or molecular biology. This appointment is for 1 year with possible renewal at the School of Medicine, upon review. Convergent thesis oral defense is required. Applications are particularly encouraged from women and minority candidates. Departmental chair, University of California, Los Angeles, CA 90024-1772.

BIOLOGY, TENURE-TRACK ASSISTANT PROFESSOR. At Augustana College, a 5200-student, senior unit of the University System of Georgia. A commitment to teaching undergraduates and pursuing scholarly activities, including the direction of student research, is essential. Teaching responsibilities will include introductory biology and invertebrate zoology; preferably marine biology and ichthyology. Ph.D. required. Employment begins 1 September 1991. Send letter of application, copies of publication references with addresses and telephone numbers to: Dr. Russell E. Stults, Department of Biology, Augustana College, Augustana, GA 30910. Applications received by 26 April 1991 will be assured of full consideration. Augustana College is an Affirmative Action/Equal Opportunity Employer and specifically invites and encourages applications and nominations from women and minorities.

Eastern Kentucky University. ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES. The Department of Biological Sciences at Eastern Kentucky University seeks applicants for a Ph.D.-level, tenure-track position in anatomy and physiology beginning August 1991. Teaching responsibilities will involve undergraduate courses in human anatomy, advanced human anatomy, and neuroanatomy for allied health students, as well as upper-division vertebrate course of their M.S. program. The successful candidate will be expected to direct undergraduate and graduate research in an area of special expertise. Send letter of application, curriculum vitae, transcripts, description of teaching and research goals, and three letters of reference by 28 April 1991 to: Dr. William W. Farrar, Department of Biological Sciences, Eastern Kentucky University, Richmond, KY 40475. FAX: 606-622-1020. Eastern Kentucky University is an Equal Opportunity/Affirmative Action Employer. Employment eligibility verification required. Immigiration Reform and Control Act of 1986.

RESEARCH ASSISTANT PROFESSORS
Two research assistant professors are needed to participate in team research in the development and application of digital imaging microscopy to clinical diagnostics. Ph.D. in physiology, computer science, biology, biophysics and mathematics is required. Practical experience in computer hardware and software development (UNIX, Fortran, Pascal, J language), mathematical modeling, digital image processing techniques and solid foundation in the current state-of-the-art of diagnostic markers for cervical and breast carcinoma is also required. Salary commensurate with experience. Send curriculum vitae and names, addresses, and telephone numbers of three references to: Dr. Charles R. Hackenberg, Department of Biochemistry and Anatomy, University of North Carolina at Chapel Hill, CB# 7090, 108 Taylor Hall, Chapel Hill, NC 27599-7090. Applications may be submitted until the position is filled. Eastern Kentucky University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

MOLECULAR BIOLOGIST/BIOCHEMIST
A faculty research position at the ASSISTANT/ASSOCIATE PROFESSOR level is available starting 1 August 1991 in the Marine Molecular Biology Laboratory in the Department of Biology, University of Kentucky Medical Center (UKMC). Candidates must have a Ph.D. and substantial postdoctoral experience. Experience in any area of molecular biology is desirable. Salary is negotiable, and applications are particularly encouraged from women and minority candidates. Send applications (curriculum vitae, names, addresses, and references) to: Dr. Bruce Lucas, MS-269 UKMC, 800 Rose Street, Lexington, KY 40536. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR OF CLINICAL NUTRITION. Full-time, tenure-track position. M.D. and/or Ph.D. with clinical nutrition emphasis in the functional mechanisms and grad- uate teaching competency. Salary commensurate with experience. Exciting multidisciplinary opportunities available for research in nutrition, exercise, and gas troenterology. In addition, the candidate will have access to a growing and highly motivated student body. Send letter of application, curriculum vitae, and three letters of reference to: Dr. Geza Bruckner, Chair, Department of Clinical Sciences, 229 Medical Center Annex Two, University of Kentucky, Lexington, KY 40536-0080.

ASSISTANT/ASSOCIATE PROFESSOR, LABORATORY OF TOXICOLOGY, HARVARD UNIVERSITY, SCHOOL OF PUBLIC HEALTH
The Laboratory of Toxicology is searching for a junior faculty member who plans to establish an independent, competitive research program in the broad area of molecular and cellular mechanisms of toxicity. The success- ful applicant's interests will complement the laboratory's current strengths, which include mutagenesis and DNA repair, cellular responses to oxidative stress, receptor- mediated processes, and systems toxicology. Special- ized areas of interest include the molecular and cellular mechanisms of the effects of environmental (natural and synthetic) agents on these processes. Candidates will be expected to establish an independent, competitive research program in the area of molecular/cellular mechanisms of toxicity. The position includes opportunities for graduate and postdoctoral training and teaching. Applications are encouraged from women and minority candidates.

CARDIOVASCULAR PHYSIOLOGIST
The Department of Veterinary Physiology and Pharmacology, Texas A&M University, invites applications for a tenured-track faculty position at the level of ASSISTANT/ASSOCIATE PROFESSOR. Qualifications include a Ph.D. degree, advanced training in cardiovascular physiology, and proven ability to develop and conduct a significant research program in this field. Interest in comparative medicine is desirable. The position will include participation in the curriculum of graduate and undergraduate students. The University offers competitive salaries, and research support. Excellent opportunity for energetic and enthusiastic individual to participate in the development of new research programs. The University offers competitive salaries, and research support. Excellent opportunity for energetic and enthusiastic individual to participate in the development of new research programs. The University offers competitive salaries, and research support. Excellent opportunity for energetic and enthusiastic individual to participate in the development of new research programs. The University offers competitive salaries, and research support. Excellent opportunity for energetic and enthusiastic individual to participate in the development of new research programs. The University offers competitive salaries, and research support. Excellent opportunity for energetic and enthusiastic individual to participate in the development of new research programs. The University offers competitive salaries, and research support.

VERTEBRATE PALEONTOLOGIST/CURATOR
Carnegie Museum of Natural History seeks applicants for a curatorial position in vertebrate paleontology to join a staff that includes four other curators. Qualifications: Ph.D. with specialization in vertebrate paleontology; field/research program to complement Carnegie's collections; experience in curation; ability to obtain research funding; willingness to participate in education/exhibit programs. Rank and salary commensurate with experience. Latest start date 1 January 1992. Send letter of application, up to five published statements of research program, and names of three references to: Search Committee, Vertebrate Paleontology, Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, PA 15213. Equal Opportunity/Affirmative Action Employer.

CHIEF, DIVISION OF DIGESTIVE DISEASES AND NUTRITION. The Department of Medicine of the University of North Carolina at Chapel Hill has opened a search for a chief of the Division of Digestive Diseases and Nutrition. We seek candidates with strong clinical credentials and a record of productivity in basic or clinical investigation who are capable of leading a large and diverse division with vigor and distinction. Interested individuals should reply with their curriculum vitae and the names of three references to: GI Search Committee, 8069 Clinical Sciences, 107 Biochemistry Building, The University of North Carolina—Chapel Hill, Chapel Hill, NC 27599-7080. UNC-Chapel Hill is an Equal Opportunity/Affirmative Action Employer. Women and minority applicants are encouraged to identify themselves.

ENVIRONMENTAL SCIENTIST/BRANCH CHIEF
Permanent full-time position at U.S. Environmental Protection Agency's (EPA) Robert S. Kerr Environmental Research Laboratory, Ada, Oklahoma. Must have M.S. degree in environmental chemistry, biology, or related field, with strong back- ground in either chemistry, biochemistry, soil microbiology, or microbial ecology. Must be able to work with people and have demonstrated ability to provide effective oral and written communication skills. Salary range: GS-13, $44,348 to $57,650; GS-14, $52,406 to $68,129. Must be U.S. citizen. For a copy of announcement and necessary forms, write to: Ms. Carolyn Taylor, P.O. Box 1198, Ada, OK 74820. No later than 6 May 1991, call: 405-322-8800, ext. 228. EPA is an Equal Opportunity Employer.

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UNIVERSITY OF HONG KONG
Reader/Senior Lecturer in Anatomy
(Ref. 90/91-68)

Applications are invited for a Readership/Senior Lectureship in the Department of Anatomy, tenable from September 1, 1991. The appointment will be full time on either superannuable terms, or a two-year fixed term contract. Appointments on secondment would also be considered.

Applicants should be experienced teachers of gross anatomy. The appointee will be expected to play a major role in the co-ordination and development of the Department's teaching programmes in gross anatomy, principally for preclinical medical students. Applicants should preferably hold a medical qualification but this should not discourage other experienced teachers of gross anatomy from applying.

Preference will be given to candidates who have a strong research commitment in one of the Department's existing areas of expertise which include Cancer Biology, Cell Biology, Neurobiology, Neuroendocrinology, Oral Biology and Reproductive Biology.

Annual salaries (superannuable for permanent staff and non-superannuable but attracting 25% (taxable) terminal gratuity for contract staff) are on the scales:

Reader HK$453,780–602,680 (9 points)
Senior Lecturer HK$435,000–584,340 (9 points)
( glyph approx. US$1=HK$78.00 as of February 12, 1991.)

Starting salary will depend on qualifications and experience. At current rates, salaries tax will not exceed 15% of gross income. Housing at a charge of 7.5% of salary, children's education allowances, leave, and medical benefits are provided.

Further particulars and application forms may be obtained from Appointment (39095), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK, or from the Appointments Unit, Registry, University of Hong Kong, Hong Kong (Fax (852)-5592058; E-mail APPTUN IT@HKUVM.HKU.HK).


The University of Sydney
AUSTRALIA

CHAIR OF ANIMAL SCIENCE
Reference No. 05/04

Applications or expressions of interest are invited for the Chair of Animal Science which will become vacant at the end of 1991 following the retirement of Professor E.F. Annison. Current interests of the department include nutrition, reproductive biology and genetics. There is a second Chair of Animal Science which is occupied by Professor D.R. Fraser whose interest is in animal biochemistry. The Department of Animal Science is located at two centres, Sydney and Camden. The successful applicant will be based at Camden. It is anticipated that interviews for the Chair will be held three months after the closing date.

Salary will be at the rate of $A467,812 p.a.

The University reserves the right to appoint by invitation and not to proceed with any appointment for financial or other reasons.

Intending applicants for chair positions should obtain a detailed statement of information concerning the chair from the Registrar, address below.

Applications (in triplicate for chairs) quoting Reference No., and including curriculum vitae, list of publications and the names, addresses and fax nos. of three referees (only three referees will be contacted in the first instance and if more referees are nominated they should be ranked in order of preference) to the Registrar. Staff Office, University of Sydney, NSW 2006 Australia (Fax 612-692-2068) by 25 April, 1991.

Equal employment opportunity and no smoking in the workplace are University policy.

FACULTY POSITIONS IN BIOCHEMISTRY
and CELL BIOLOGY
St. Jude Children's Research Hospital

St. Jude Children's Research Hospital, a private research institute, is engaged in a major expansion of its facilities and scientific activities. A new research building to be completed in early 1991 will provide 240,000 square feet of new laboratory space which will house the institute's basic science programs. As part of this expansion, new faculty positions are now available in the Departments of Biochemistry and Cell Biology. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the level of Assistant Member, more senior investigators with appropriate research interests and qualifications will be considered for positions of higher faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction, and mechanisms of gene regulation are particularly encouraged to apply. Opportunities exist for collaborative interactions with ongoing basic research programs in Virology and Molecular Biology, Immunology, and Pharmacology, as well as with clinical investigators in Hematology/Oncology and Infectious Diseases. In addition to new facilities and excellent start-up funds, salaries are nationally competitive and include a generous benefits package. A strong institutional commitment to its faculty ensures stability in program development and continuity of research activities.

Applicants should submit a curriculum vitae, a letter summarizing their research accomplishments and goals, and the names of three references to either:

Dr. James N. Ihle
or
Dr. Charles Sherr
St. Jude Children's Research Hospital
332 N. Lauderdale
Memphis, TN 38165 USA

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
FOOD AND DRUG ADMINISTRATION
CENTER FOR FOOD SAFETY AND APPLIED NUTRITION

DIRECTOR, OFFICE OF SEAFOOD

The Food and Drug Administration invites applications for the position of Director of the new Office of Seafood in the Center for Food Safety and Applied Nutrition. The Director will provide marine science expertise to expand and direct the Center's seafood safety research and regulatory programs. Research is conducted on seafood, aquaculture, and seafood harvesting and processing, as they are affected by chemical, biotic or microbial contamination. Regulatory programs to ensure that all seafood products are safe and properly labeled are the responsibility of this office. Strong leadership is necessary for the federal programs, state programs, and others such as the National Shellfish Sanitation Program.

QUALIFICATIONS: Experience is required in the biological or chemical sciences, with emphasis on food sciences, food engineering/technology, marine biology, ichthyology, parasitology, food microbiology, etc., related to seafood safety. Candidates must be nationally and internationally recognized by the scientific community, must meet U.S. OPM qualifications requirements and must be U.S. citizens. A Ph.D. is preferred but consideration will be given to all applicants with Master's or Bachelor's degrees and appropriate experience.

SALARY: Appointment will be for a full-time, permanent position with a salary range of $61,643 to $80,138 per year dependent on qualifications. This position is projected for inclusion in the Senior Executive Service which has a salary range of $867,000 to $1,010,300.

LOCATION: The Office of Seafood will be located in the Washington, DC Metropolitan Area, with research and technical support facilities in Dauphin Island, AL and Davieville, RI.

TO APPLY: Candidates should send a current CV or Application for Federal Employment and bibliography to Dr. Douglas L. Archer, Deputy Director, Center for Food Safety and Applied Nutrition (HFP-3), 200 C Street, S.W., Washington, D.C. 20204. Applications for this position must be postmarked not later than April 20, 1991.

The Food and Drug Administration is Smoke Free
The Food and Drug Administration is an Equal Opportunity Employer.
ENDOWED PROFESSORSHIP
TExAS A&M UNIVERSITY

The Department of Biochemistry and Biophysics is seeking applications for the Wolfe-Welch Professorship in Chemistry. Applicants should have a Ph.D. and a record of significant research accomplishments supported by competitive funding. Outstanding candidates in all research areas will be considered.

Applicants should submit curriculum vitae, list of publications, a brief description of current and future research directions, and have three letters of reference sent to: Dr. Robert D. Wolfe, Department of Biochemistry, Texas A&M University, College Station, TX 77843–2128.

The Texas A&M University System is an Affirmative Action/Equal Opportunity Employer.

PROFESSOR AND HEAD. Department of Oral Biology, University of Illinois at Chicago (UIC), College of Dentistry.

Nominations and applications are now being accepted for the position of head, Department of Oral Biology, the University of Illinois at Chicago, College of Dentistry. This position affords an exciting opportunity to build a broadly-based research program and to mentor graduates in the disciplines that relate to oral biology. The department will be a core basic science division in the College of Dentistry and will also develop collaborations and interactions throughout the UIC community. Interests of current faculty include biology and pathology of the jaw joint and oral-facial development, mineralization, connective tissue biology, and neurophysiology. The department participates in undergraduate, graduate, and postgraduate teaching programs and encourages mentors to present annually to perform high-quality research. Teaching responsibilities include gross and neuro anatomy, oral and general histology, and dental anatomy with the expectation of expansion into other areas.

Qualifications for the headship include an earned doctoral degree (Ph.D. and/or D.D.S., D.M.D., M.D.). Evidence of ability to develop and administer an independent research program and demonstrated leadership potential is essential. Salary is competitive and dependent upon the qualifications and experience of the candidate. The position is available immediately.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer. For full consideration, send nominations and applications along with the curriculum vitae and the names of three professional references by 31 May 1991 to: Dr. R. John Solano, Chair, Search Committee for the Office of the General Headship, UIC College of Dentistry, Office of the Dean (MC 621), Box 6998, Chicago, IL 60680.

CHAIR, DIVISION OF MEDICINAL CHEMISTRY AND NATURAL PRODUCTS. The School of Pharmacy at the University of North Carolina at Chapel Hill invites application for the position of chair and professor of the Division of Medicinal Chemistry and Natural Products. The division chair is responsible for providing leadership to the research and teaching programs of the division. Candidates must have a Ph.D. in medicinal chemistry or an allied area related to the research (Ph.D.), and teaching of the division, demonstrated success in developing external funding, good leadership qualities, and a commitment to scholarly achievement. The position will be available 1 January 1992 and will remain open until a suitable candidate is appointed. Interested applicants should contact: Dr. George H. Duggan, School of Pharmacy, University of North Carolina, CB# 7360 Beard Hall, Chapel Hill, NC 27599. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF CAMBRIDGE
PROFESSORSHIP OF VIROLOGY

Applications are invited for this newly established professorship. Informal stipend: £32,662 a year. Further information from: The Secretary General of the Faculties, General Board of Office, The Old Schools, Cambridge CB2 1TT, England, to whom three copies (ten copies, marked "confidential," should be sent with the names of two referees by 29 April 1991.

The university follows an Equal Opportunities policy.

ENDOWED PROFESSORSHIP
UNIVERSITYOF CAMBRIDGE

Leadership in virology is being established with a new professorship at the University of Cambridge. This professorship is funded by a generous gift from a private donor, in recognition of the outstanding contributions made by Dr. Peter Doyle, head of the Department of Virology at the University of Cambridge. The new professor will be expected to continue the tradition of excellence in research and teaching, and to bring new ideas and approaches to the field. According to Dr. Doyle, the purpose of this professorship is to "provide a focus for research and teaching in virology that will attract and retain the best students and researchers from around the world." The new professor will have the opportunity to work closely with other members of the Department of Virology, as well as with researchers from other fields, such as molecular biology and genetics.

The University of Cambridge is one of the leading centers for virology research in the world, with a long history of excellence in this field. The new professorship is expected to further strengthen the Department of Virology and to enhance the University's reputation for excellence in virology research.

The position is available immediately, and applications are encouraged from outstanding candidates with a proven record of research achievement. The University of Cambridge offers a competitive salary and benefits package, as well as opportunities for professional development and international collaboration.

Please submit a letter of application, vitae, and names of three referees to: The Secretary General of the Faculties, General Board of Office, The Old Schools, Cambridge CB2 1TT, England. The closing date for applications is 30 June 1992.

An Equal Opportunities/Affirmative Action Employer.
NIH SEEKS A SECTION CHIEF
National Institute of Allergy and Infectious Diseases

The Genetics and Transplantation Branch of the Division of Allergy, Immunology and Transplantation is seeking an outstanding Physician (M.D.) or Scientist (Ph.D.) with specific skills in the area of Clinical Transplantation and Transplantation Immunobiology. Candidate should be broadly qualified and should have research experience.

If applicant is a physician, a Transplant Surgeon or Physician with appropriate specialty training is preferred.

Responsibilities will include planning and conducting an extramural scientific research and clinical trial program and will permit the opportunity to maintain an academic affiliation. We offer a competitive salary and outstanding benefits. Physician's comparability pay up to $29,000 may be applicable. Please contact:

Dr. Robert A. Goldstein
NIAID/National Institutes of Health
Building 31, Room 7A52
9000 Rockville Pike
Bethesda, MD 20892
Phone: (301) 496-1886

U.S. Citizenship is Required
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ELECTRON & LIGHT MICROSCOPIST
B.S./M.S.

Merck, the world leader in medical research, is offering an excellent career opportunity for an experienced electron and light microscopist to join our Department of Bone Biology. The selected candidate will manage the departmental microscopy facility containing extensive TEM/LM, microtomy confocal, image processing and fluorescence capabilities.

Requirements for this position include a B.S./M.S. in biology or the equivalent, a minimum of 5 years experience in TEM, LM, and general photography/darkroom technique, and familiarity with immunocytochemical techniques.

Excellent salary and benefits accompany this position at our modern research facility located 25 miles northwest of Philadelphia. Please send resume and salary requirements to Personnel Manager A-7, Research Personnel WP42-2, Merck Sharp & Dohme Research Laboratories, West Point, PA 19486. An equal opportunity/a****emptive action employer.
RESEARCH SCIENTIST

The Department of Anesthesiology at the Nassau County Medical Center is seeking an individual to:

1. Conduct a program of appropriate independent investigation.
2. Plan and supervise the expansion of our present research laboratory facilities;
3. Maintain and supervise our vascular smooth muscle laboratory;
4. Assist the Departmental Staff with research projects;
5. Participate in didactic program for residents.

A Ph.D. degree, good communication and data analysis skills, computer programming knowledge and publication record are necessary.

The Nassau County Medical Center, located on Long Island, is a 615 bed teaching hospital affiliated with the State University of New York at Stony Brook. Qualified individuals are eligible for academic appointments at that institution.

As public employees of Nassau County, Research Scientists receive excellent salary, benefits and job security. Interested candidates should send their CV and the names of three references in confidence to:

KENNETH J. FREESE, M.D.
Chairman
Department of Anesthesiology
NASSAU COUNTY MEDICAL CENTER
2201 Hempstead Tpke.
East Meadow, NY 11554

POSITIONS OPEN

DEAN, University of South Florida (USF) College of Medicine. The University of South Florida College of Medicine is seeking the position of dean. The dean is responsible for the education, research, and clinical programs conducted at the University of South Florida College of Medicine. The position is one of three in the state of Florida. USF opened in 1960 and the College of Medicine began in 1971. USF is the 35th largest university in the nation with more than 30,000 students and a $1.3 billion area of more than 2 million people. The Health Sciences Center also includes a College of Public Health and a College of Nursing. The College of Medicine currently has 475 faculty and 96 students in each class. Applicants should have an M.D. degree or equivalent; should have considerable academic, administrative, and leadership experience; and should meet standards for appointment at the full professor level. Applicants should send their curriculum vitae and the names of five references to: Allan L. Goldman, M.D., Chairman, Dean Search Committee, University of South Florida College of Medicine, Box 19, 12901 Bruce B. Downs Boulevard, Tampa, FL 33612. USF is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT DEAN COORDINATOR OF INTERNATIONAL PROGRAMS

The College of Arts and Sciences at North Carolina State University invites applications and nominations for the position of coordinator of international programs to be available 1 July 1991. Duties include providing leadership and coordination activities for the international programs of the college. Programs will be directed toward international activities in both developed and developing countries, such as student exchanges and study abroad, visiting scholars, and faculty development through collaborative linkages with overseas institutions and traditional technical assistance programs. The coordinator will report to the dean of the college and will collaborate and work with associate deans and directors of research, teaching, and extension as well as department head in all international and college programs.

A doctorate in agricultural, social, or biological sciences or other closely related field and administrative expertise as well as experience and familiarity with international programs and organizations are required.

Send a letter of application, curriculum vitae, and names, addresses, and telephone numbers of three references to: Dr. Johnny C. Wynne, Chairperson of Search Committee, Box 7620, North Carolina State University, Raleigh, NC 27695–7620. Applications must be received by 19 April 1991. North Carolina State University is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR GENETICIST PSYCHOPHARMACOLOGIST

Mayo Clinic/Mayo Medical School invites applicants for a FACULTY POSITION in the Department of Psychiatry and Psychology, in close collaboration with members in the Department of Pharmacology and/or the Department of Biochemistry and Molecular Biology. Candidates should have primary interests in major psychiatric disorders and be pursuing interests with the methods of molecular genetics and/or molecular pharmacology. M.D. and clinical training in psychiatry are desirable but not required. Mayo will provide generous space and start-up funds in addition to an attractive package of salary and benefits. The candidate rank will be determined by qualifications; established investigators are also encouraged to apply. Submit curriculum vitae with names and addresses of three or more references to: Toshio Shiroy Maruta, M.D., Chairperson, Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

BONUS CIRCULATION FOR YOUR CLASSIFIED AD AT ASM MEETING

Our issue of 26 April 1991 will be distributed to scientists attending the 1991 ASM Meeting in Dallas, Texas. Deadline for submission of line classified ads: 11 April 1991.

SCIENCE Classified Advertising
Telephone: 202–328–6855
FAX: 202–682–0816

POSITIONS OPEN

TRANSPLANTATION IMMUNOLOGIST DIRECTOR OF RESEARCH

We are seeking a Ph.D. immunologist with postdoctoral experience in transplantation biology to direct research activities in the Section of Transplantation in the Department of Surgery with a joint appointment in the Department of Microbiology and Immunology. The individual would collaborate with surgeons in the Section of Transplantation and members of the Department of Microbiology and Immunology. This is a full-time academic position at the rank of ASSISTANT PROFESSOR or as commensurate with qualifications. Send curriculum vitae and three professional references to:

Stephen T. Bartlett, M.D.
Associate Professor and Chief
Section of Transplantation Surgery
Division of General Surgery
University of Maryland Hospital
c/o Lois Reitig
405 West Redwood Street, 5th Floor
Baltimore, MD 21201

Equal Opportunity Employer, M/F/H/V. Minorities and females are encouraged to apply.

MANAGER TECHNICAL INFORMATION SERVICES

The Coca-Cola Company is seeking a manager, Technical Information Services, to manage the resources library in technical division. Responsibilities include supervising the acquisition, cataloging and circulation of books, periodicals and other published materials; managing the automation of library systems; preparing a quarterly literature awareness bulletin and announcement of recent literature searches and company reports; assisting in literature searching and general reference work; supervising two information scientists and two library assistants; preparing and managing an annual budget. Qualifications for the position include 5 to 7 years in a technical library. Experience with library and special project management; bachelor's degree in a natural or applied science plus a master's degree in library science. The Coca-Cola Company is an Equal Opportunity Employer.

Résumés, along with salary history, should be sent to: The Coca-Cola Company, Corporate Staffing, Department LP, P.O. Drawer 1794, Atlanta, GA 30301.

FACULTY POSITIONS IN NUTRITIONAL BIOCHEMISTRY

The Department of Nutrition at Case Western Reserve University is undergoing major expansion at Mount Sinai Medical Center in Cleveland. We seek two investigators working on the regulation of carbon flux through the pathways of nutrient metabolism, in humans and in animal models. Candidates are expected to develop independent research programs using modern techniques of enzyme, protein, and metabolite analyses and new technologies. The successful candidate should be able to negotiate a competitive package. Applicants are also encouraged to apply. Send curriculum vitae and three letters of reference to: Dr. Henri Bruenigebabergr, Chairman, Department of Nutrition, Case Western Reserve University, Cleveland, OH 44106. Case Western Reserve University is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

CASTLETON STATE COLLEGE. BIOLOGY FACULTY VACANCY

Assistant Professor of Biology. Castleton State College seeks a fourth biologist for the 1991 to 1992 academic year and following in what will likely be a tenure-track appointment. Salary is based on degrees and experience and is consistent with the Castleton State Professorial scales. The primary teaching responsibility will be to collaborate in teaching human anatomy and physiology. The successful applicant will be a dynamic educator with a Ph.D. in biology (strong ABD's considered). The candidate will be able to teach courses in specialty such as vertebrate biology, physiology or cell biology. Ability to teach introductory chemistry is desirable. The candidate should be able to work effectively with colleagues and students as well as contribute to the vitality and growth of the department. The position will begin in fall of 1991. Application material must include a resume, statement of teaching and research interests, three letters of reference and transcripts. Materials should be sent to the address below. Review of applicants will begin on 8 April 1991. Dr. Joseph T. Mark, Academic Dean, Biology, Box 633, Castleton State College, Castleton, VT 05735. Equal Opportunity Employer.

SCIENCE, VOL. 251
MOLECULAR BIOLOGY & GENETICS

Several faculty and staff positions to be filled during the next 2-3 years as part of a major expansion and modernization of the Department of Biochemistry & Molecular Biology at the Albany Medical College. Currently available positions include:

- 2 Full Professors
- 2 Associate Professors
- 3 Assistant Professors
- 10 Postdoctoral Fellows & Technicians

The Albany Medical College has made a major commitment to the growth and development of molecular biology and molecular genetics. The newly constructed Department of Biochemistry & Molecular Biology will occupy state-of-the-art laboratories in a modern research building. Shared departmental facilities will include an extensive cell-culture complex and major equipment for modern biology. Competitive salaries and start-up funds will be offered to qualified candidates.

The Albany Medical College (Est. 1839) has a proud history of research, teaching, and patient care. The city of Albany, state capital of New York, offers an excellent lifestyle with easy access to New York City, Boston, and Montreal. Surrounding rural communities offer everything from the splendor of the Adirondack mountains to the quiet charm of the Berkshire foothills.

Departmental interests center on the regulation of gene expression, but exceptional candidates in any area of molecular biology or molecular genetics will be seriously considered. The successful faculty candidates will be expected to establish vigorous independent research programs and attract substantial external funding. Please send curriculum vitae, statement of research interests and goals, and the names of at least three references to:

Professor Kelvin J. A. Davies, Chairman
Department of Biochemistry & Molecular Biology
The Albany Medical College
New Scotland Avenue
Albany, New York 12208

An Equal Opportunity/Affirmative Action Employer.
TENURE-TRACK POSITION IN GASTROINTESTINAL CELLULAR BIOCHEMISTRY

Applications are invited for a tenure-track position at the ASSISTANT/ASSOCIATE/FULL PROFESSOR level in the Department of Medicine, School of Medicine, St. Louis University. We are seeking a person with high promise in research who is interested in working in an environment based on gastrointestinal cellular function. Applicants must have Ph.D. in biochemistry or cell biology or an M.D. degree with at least 2 years of relevant postdoctoral experience. Subject curriculum vitae, a statement of research interests, and three letters of recommendation to: Jerry D. Gardner, M.D., Associate Chairman, Department of Internal Medicine, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104. St. Louis University is an Affirmative Action/Equal Opportunity Employer.

CAREER SCIENTIST (TENURE-TRACK FACULTY). Position with primary appointment in the Department of Anesthesiology and possible joint appointment in a basic science department. Candidate should possess a Ph.D. or an equivalent degree with postdoctoral experience and demonstrated ability to attract extramural research funding. Primary research interests should be in the areas of molecular pharmacology, physiology, or biochemistry with direct or indirect applicability to anesthesiology, critical care medicine, or pain management. Generous laboratory space and start-up funds are available. The academic rank will be determined by qualifications. Established investigators are especially encouraged to apply. Please send a description of research interests, curriculum vitae, and names and telephone numbers of three references to: P. R. Houmsans, M.D., Ph.D., Mayo Medical School, Rochester, MN 55905 by 1 May 1991. Mayo Foundation is an Affirmative Action/Equal Opportunity Employer.

FACTORY POSITION: ASSISTANT PROFESSOR

The Department of Obstetrics and Gynecology at The University of Alabama at Birmingham has a faculty position open in the Division of Reproductive Biology and Endocrinology. Applicant should be U.S. citizen with a Ph.D. in endocrinology, physiology or embryology obtained from a U.S. university. The applicant should have 3 years postdoctoral fellowship in reproductive endocrinology and must have had hands-on experience in standard and natural cycle IVF. A strong research background with an interest in ovarian follicle physiology and its role in the preimplantation stage at the laboratory assistant level, tenure-earning. The applicant should be available to assume clinical IVF duties mid-summer, 1991. Please send curriculum vitae and the names of three references by 15 May 1991 to: Richard E. Blackwell, Ph.D., and Division Director, Department of Obstetrics and Gynecology, The University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294. An Equal Opportunity/Affirmative Action Employer.

MOLAR NEUROBIOLOGY POSTDOCTORAL POSITIONS NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM

The Section on Molecular Neurobiology, National Institute on Alcohol Abuse and Alcoholism (NIAAA) has a position available beginning 1 July 1991 to (i) study the structure and function of GABA_A receptors using several approaches and (ii) isolate and characterize molecular basis of alcohol's effects on GABA_A receptor function. Approaches to be used include: PCR technique to identify new GABA subunits and polymorphisms, cloning from species and cell lines, and studies in molecular neurobiology. Xenopus expression systems, and electrophysiology are encouraged. Please send curriculum vitae, references, and a letter of interest to: Dr. Chae wong, Ph.D., Chief, Section on Molecular Neurobiology, Laboratory of Physiologic and Pharmacologic Studies, NIAAA, 4525 W. I-95, Rockville, MD 20852.

ADAMSA is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS DEPARTMENT OF SURGERY THE UNIVERSITY OF CHICAGO

The Department of Surgery at the University of Chicago wishes to invite applications and nominations for several postdoctoral positions to be filled in the 1991 to 1992 academic year. Candidates should be Board-certified or Board-eligible in their specialty. In addition to generic surgery, positions are available in cardiovascular surgery, neurosurgery, oral and maxillofacial surgery, orthopaedic surgery, otolaryngology/head and neck surgery, pediatrics, plastic surgery, thoracic surgery, transplantation surgery, vascular surgery, and urology. Responsibilities will include teaching, clinical and/or basic research, and patient care. Applicants should submit curriculum vitae, a list of publications, and the names of at least four individuals from whom letters of reference may be solicited. While we have no formal deadline, we would appreciate receiving applications by 15 October 1991. Please send applications or nominations to: George E. Block, M.D., Acting Chairman Department of Surgery The University of Chicago 5841 South Maryland Avenue, Box 168 Chicago, IL 60637 The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS WALTER ONCOLOGY CENTER INDIANA UNIVERSITY SCHOOL OF MEDICINE

Postdoctoral positions are available to study the molecular and cellular biology of two newly isolated lymphokines, IL-9 and IL-11. Candidates with a Ph.D. degree interested in applying contemporary techniques of molecular biology and receptor biochemistry to understand the role of these lymphokines should send their curriculum vitae and addresses of three references to: Dr. Yu-Chung Yang, Walter Oncology Center, Indiana University School of Medicine, Room 540 Medical Research and Library Building, 975 West Walnut Street, Indianapolis, IN 46202. Candidates with background in molecular biology or biochemistry will be preferred although no background is required.

Walter Oncology Center is an Equal Opportunity Employer.

POSTDOCTORAL POSITION THE WISTAR INSTITUTE

A postdoctoral position is available to characterize a newly discovered enzymatic activity, "RNA duplex unwindase" and to understand its physiological roles. The activity is very novel, capable of unwinding double-stranded RNAs by modifying many adenine residues to inosine and creating 1-U mismatched base-pairings. The activity is likely to affect/mediate the secondary structures, processing, and turnover of various eukaryotic as well as viral transcripts [Nature, 337, 19-20 (1989); Cell, 56, 331 (1989)]. Applicants should have training in protein chemistry, biochemistry, or molecular biology. The Wistar Institute is an Affiliated Member of the University of Pennsylvania campus, and is devoted to basic research. Interested persons should send curriculum vitae, reprints, related experience, and a list of at least three references to: Dr. Kazuko Nishikura, The Wistar Institute, 36th and Spruce Streets, Philadelphia, PA 19104. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN REPRODUCTIVE ENDOCRINOLOGY

This unique opportunity exists in the Reproductive Endocrine Unit of Massachusetts General Hospital (Harvard Medical School) combines basic research on local regulators of gonadal physiology with a clinical application of research to understanding disease states. The specific project involves characterization and regulation of posttranslational processing of synthesis of new regulators of reproductive function and molecular techniques. Applicants should have experience in either protein purification and characterization or molecular biology. Applicants should have a statement of research goals, and names of at least three references to: Dr. Alan Schnyer, Ph.D., Reproductive Endocrine Unit, Massachusetts General Hospital, Boston, MA 02214.
GIS MANAGER
NATURAL RESOURCES RESEARCH INSTITUTE
UNIVERSITY OF MINNESOTA, DULUTH
This is an academic position which is open at the level of Research Fellow (M.S./M.A) or Research Associate (Ph.D.)

Minimum Qualifications: M.S./M.A. degree in geography, computer science or related field with coursework and/or significant experience in Geographic Information Systems (GIS) and computer programming. M.S./M.A. or Ph.D. degree must be completed by starting date of appointment.

Desired Qualifications: M.S./M.A. or Ph.D. degree in geography, computer science, or related field with coursework emphasis in Geographic Information Systems (GIS), computer cartography, computer programming, remote sensing, and quantitative methods. Working knowledge of DOS, UNIX, and VMS operating systems. Two or more years experience with: 1) GIS software, particularly ARC/INFO and ERDAS, 2) workstation and microcomputer operation, and 3) peripherals required for entering and plotting mapped data. Some experience in computer programming (ARC/INFO AML, C). Demonstrated ability to provide training/teaching.

Responsibilities: Manage an academic GIS facility, established through an NSF Biological Facilities Grant, which specializes in the application of GIS to ecological and natural resources research. Work with principal investigators to develop GIS methods and applications. Maintain equipment and software. Develop and document GIS procedures and programs to facilitate GIS use. Train new users of the facility.

Appointment: Initial appointment will be for two years beginning summer 1991. Continuation based on performance.

Send an application letter and current resume, and the names, addresses, and telephone numbers of three references to:

GIS Manager Search Committee
Natural Resources Research Institute
University of Minnesota, Duluth
5013 Miller Trunk Highway
Duluth, MN 55811

Applications must be postmarked by June 15, 1991. Writing samples may be requested at the time of interview.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, religion, color, sex, national origin, handicap, age, veteran status, or sexual orientation.

Protein Chemist — Biochemist

The Biomedicine and Health Program at the Australian Nuclear Science and Technology Organisation is seeking outstanding individuals to develop radioimmunopharmaceuticals for diagnosis with PET and SPECT, and for therapeutic applications. Successful applicants will form a multi-interdisciplinary team addressing needs of Australian nuclear medicine.

Our goal is improving health care delivery through innovative research, market-driven product development, and global collaboration with academia and industry.

The National Medical Cyclotron and the joint Ansto/PAH PET Centre will be commissioned at the Sydney location during 1991. A medical cyclotron and PET will be installed at Austin Hospital, Melbourne in 1992.

Applicants must have a PhD preferably with 1-3 years postdoctoral experience in protein, immuno or biochemistry. For permanent appointments applicants must be Australian citizens. Opportunities for sabbatical and term contracts are also available.

Expressions of interest along with resume nominating 3 referees should be sent to:

Dr R.M. Lambrecht, Director, Biomedicine & Health Program, PMB 1, Menai, NSW 2234, Australia.
Phone: 61 2 543 3935, Fax: 61 2 543 9262.

ANSTO is an Equal Opportunity Employer. Smoking in the workplace is prohibited.

AUSTRALIAN NUCLEAR SCIENCE & TECHNOLOGY ORGANISATION

Univax Biologics Inc.'s primary objective is the development of new vaccines for the use in the production of intravenous immunoglobulin for therapeutic and prophylactic treatment of life threatening infectious diseases. The Company is now seeking to significantly expand its research and development group and is seeking ambitious and dedicated individuals in the following areas:

Project Leader—Vaccine Development
Responsible for the activities involved with the development and validation of a vaccine for bacterial disease. The successful candidate will have at least three years' experience in vaccine development with a good working knowledge of antigen purification & characterization as well as conjugation & process validation. Demonstrated ability to manage a group of 3-5 individuals and the capability of managing interactions with key resources both within and outside the Company.

Organic Chemist
We are seeking a Ph.D. level organic chemist with a demonstrated ability to develop and validate new methods for synthesizing a variety of immunogens and polysaccharide-protein conjugates. Previous experience in a GMP setting and direct experience with polysaccharides are highly desirable.

Carbohydrate Chemist
We are seeking a Ph.D. level carbohydrate chemist with a background in the immunology and immunochrometry of polysaccharides. Ability to characterize polysaccharides and lipopolysaccharides and standardize methods of purification and large scale production is essential.

Research Technician
The Company is looking for several individuals to provide technical support for vaccine development programs. Individuals with either a B.S. or M.S. in biology, biochemistry, microbiology, or immunology, and several years' experience are invited to apply. Working knowledge of ELISA, in vitro cell assays, antigen purification, and immunochrome is desirable.

Univax Biologics Inc. offers a dynamic work environment, a competitive salary and benefits program, and equity participation plans. We are an equal opportunity employer. Send resumes to 12280 Wilkins Avenue, Rockville, Maryland 20852.
POSITIONS OPEN

POSTDOCTORAL POSITION

A postdoctoral position is available to study genetic abnormalities in urogenital malignancies. Expertise in molecular genetics is required. Send curriculum vitae and three letters of reference to: Dr. John Libertino, Lahey Clinic Medical Center, Department of Urology, 41 Mall Road, Burlington, MA 01805. Equal Opportunity Employer.

POSTDOCTORAL POSITION IN VISUAL NEUROSCIENCE

Available in laboratory studying neural circuits (and neurotransmitters) of visual thalamus and cortex by means of electrophysiological, EM, immunocytochemical and electrophysiological techniques. Experience in these techniques preferable. Support available for 3 years. Send curriculum vitae and names of three references to: Dr. V. M. Montiero, Department of Neurophysiology, University of Wisconsin, 621 Waisman Center, Madison, WI 53705. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MOLECULAR GENETICS OF HYPERTENSION

Is available for the identification and characterization of genes controlling blood pressure in hypertensive rats. Techniques include library construction, cloning, RFLP analysis, sequencing, transgenic animals, etc. Applicants must have Ph.D., M.D., D.V.M., or equivalent degree and be permanent resident of the United States. Experience in microbiology, genetics, or molecular biology is desirable. Send curriculum vitae to: Dr. Louis W. Stater, Department of Medicine, University of California, San Diego, 92103. Equal Opportunity Employer.

POSTDOCTORAL POSITION

Applications immediately to join an interdisciplinary research group investigating the role of monoamines in function recovery after brain injury. Candidates should have experience with HPLC and/or microdialysis. Funding is for 3 years with opportunity for appointment as senior research associate. Send curriculum vitae and statements of interest, and names of three references to: Dr. D. M. Feeney, Department of Psychology, The University of New Mexico, Albuquerque, NM 87131. Telephone: 505-277-8946; FAX: 505-277-1394. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY OF PRIMATE POLYMORPHISMS

Investigation of molecular biology of polymorphism, persistence and transformation of permus, and human cells. Candidates must have completed Ph.D. in virology or molecular biology. Send curriculum vitae, statement of interests, and letters of recommendation to: Frank O'Neill, Ph.D., University of Utah, Department of Immunology and VA Medical Center (151E), Salt Lake City, UT 84148.

SYSTEMS PHYSIOLOGY—BIOMEDICAL ENGINEERING: Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University, has an opening for a Postdoctoral or Instructor levels of physiology or biomedical engineering to work on models related to cardiovascular respiratory interactions, splancnic blood flow and sepsis including computer modeling. Collaborative project with anesthesia and clinical research groups on a wide range of subjects. Substantial achievement with evidence of independent abilities will lead to consideration for tenure track. Send curriculum vitae, names of references, and a brief statement of research experience and interests to: James L. Roebethon MD, The Department of Anesthesiology Laboratory, Department of Anesthesiology/CCM, Bloack 15, Johns Hopkins Hospital, 600 North Wolfe Street, Baltimore, MD 21205. The Johns Hopkins University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN GENE THERAPY

SomaGenis Therapeutics is a leading biotechnology company developing programs in gene therapy and cellular transplantation. Postdoctoral positions are available for recent Ph.D.’s to work in the area of retroviral-mediated gene transfer in mammalian cells. Candidates should have experience with retroviruses, primary cell culture, and recombinant DNA techniques. Please submit curriculum vitae to: Department #19. SomaGenis Therapeutics Corporation, 850 Marina Village Parkway, Alameda, CA 94501. Equal Opportunity Employer.

POSTDOCTORAL—MARINE POPULATIONS

Quantitative biologist with experience in modeling and analysis of population dynamics involving environmental forcing and spatial structure. Requires the ability to integrate information from physical oceanography, physiological ecology, and population biology, and some facility with implement computer simulations of population models. Familiarity with marine systems and oceanography of the California Current will be an asset. Interested parties please send letter of application, curriculum vitae, and three letters of recommendation to: Dr. John Hoegh, Department of Marine Biology, University of California, Davis, CA 95615, by 1 May 1991. The University of California is an Affirmative Action/Equal Opportunity Employer.

ASSOCIATE—POSTDOCTORAL POSITION

Applications are invited for a postdoctoral position as an associate to work in the laboratory of Dr. Robert Sussman, whose current research involves studies of X-linked human disease, using genomic approaches. Projects include investigating cell cycle and cell cycle regulation in Fragile X Syndrome, and physical mapping studies using yeast artificial chromosome, pulse field gel analysis, and microarray DNA analysis. Qualified candidates should possess a Ph.D. in molecular biology or genetics. Please forward your curriculum vitae and three letters of recommendation to: Dr. Robert Sussman, Department of Pediatrics, University of Pennsylvania School of Medicine, 422 Curie Boulevard, Philadelphia, PA 19104-6145. We are an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Applications are now being accepted to study the molecular biology of proteolytic processing enzymes required for synthesis of peptide hormones and neurotransmitters. This project involves molecular cloning and expression of proteases involved in processing enkephalin, tachykinin, and other neuropeptide precursors. Experience in molecular biology and/or protein/peptide biochemistry are required. Candidates should have recently completed a Ph.D. in biochemistry, molecular biology, molecular neurobiology, or a related discipline. Please send curriculum vitae and names of three references to: Dr. Robert Sussman, Department of Genetics, Uniformed Services University of the Health Sciences, Bethesda, MD 20814.

POSTDOCTORAL FELLOW

A position is open to study the effects of ethanol and other drugs of abuse on cardiovascular systems. The project includes immune mechanisms of resistance to infectious agents including bacteria and viruses, T- and B-cells interactions, in vitro and in vivo, T- and B-cell activation, and T-dependent antibody production to defined antigens. A Ph.D., in Immunology/Microbiology is preferred. Send curriculum vitae and names of three references to: Dr. Robert Sussman, Department of Cardiovascular and Cellular Biology, Louisiana State University Medical Center at Shreveport, P.O. Box 33932, Shreveport, LA 71130-3932. An Affirmative Action Employer.

Inquiries should be directed to: The Office of Equal Opportunity Programs, National Institute of Environmental Health Sciences, PO Box 12233, Research Triangle Park, NC 27709.

NIH is an Equal Opportunity Employer.
POSTDOCTORAL FELLOWS IN MOLECULAR NEUROIMMUNOLOGY AND NEUROIMMUNOLOGY at the University of Alabama at Birmingham are available 1 July 1991, supported by an NIH Training Grant in basic scientists or clinician researchers on the molecular basis of neuroimmunology, neuroimmunomodulation, and the bidirectional communication between the nervous and immune systems. Excellent training and research opportunities exist as follows: E. N. Benveniste, Ph.D. (cytokines and glia); J. E. Blalock, Ph.D. (neuroimmunomodulation: lymphocyte-derived factors); J. L. Dorpho, M.D. (neuro-oplastic neurological disorders); M. L. Egan, Ph.D. (immunoregulation and natural killer cells); G. Y. Gillespie, Ph.D. (immune response to viral tumors); J. D. Neill, Ph.D. (neuro-endocrinology); D. A. Weigent, Ph.D. (growth hormone and the immune system); and J. N. Whitaker, M.D. (immunchemistry and degradation of myelin basic protein). Interested applicants should submit a letter stating their specific interests, curriculum vitae, and names of three references by 20 April 1991 to: John N. Whitaker, M.D., Department of Neurology, University of Alabama at Birmingham (UAB), Birmingham, AL 35294. Telephone: 205-934-2402. UAB is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWS FOR TRAINING IN IMMUNOLOGY AND VIROLOGY at the University of Massachusetts Medical Center. Cellular immunology: Robert E. Humphreys, M.D.; Ph.D.; Lawrence Jung, M.D.; Alan D. Michelson, M.D.; Carol L. Miller, Ph.D.; David C. Parker, Ph.D.; Paul L. Romain, M.D.; Robert T. Woodland, Ph.D. Viral immunology: Neil R. Blacklow, M.D.; Francis A. Ezeis, M.D.; John E. Heerema, Ph.D.; Ichiro Kurane, Ph.D.; Takeshi Sairenji, Ph.D.; John L. Sullivan, M.D.; Raymond M. Welsh, Ph.D. Experimental diabetes: Michael C. Appel, Ph.D.; Arthur A. Like, M.D.; Aldo A. Rossini, M.D.; Bruce A. Woda, M.D. Molecular virology: Christie A. Holland, Ph.D.; Trudy G. Morrison, Ph.D.; Carol Mulder, D. Phil.; Ronald K. Jorvo, Ph.D.; Harriet L. Robinson, Ph.D. Molecular immunology: Simon K. Lawrence, Ph.D.; John E. Mole, Ph.D.; Peter E. Newburger, M.D.; Janet Stavnezer, Ph.D. Candidates interested in joining this active, multidisciplinary, NIH-supported training program should send a resume, the names of three references, and a letter stating their research interests and the laboratories in which they would be interested in undertaking training to: Dr. Harriet Robinson, Department of Pathology, University of Massachusetts Medical Center, Worcester MA 01655. The University of Massachusetts Medical Center is an Affirmative Action/Equal Opportunity Employer.

SCIENCE welcomes placement of line classified ads by FAX. Please include name and telephone number for our confirmation call when transmitting ad to: FAX NUMBER: 202-682-0816

PHARMACOLOGIST - B.S./M.S.

An opening exists to offer a B.S. candidate with 3-5 years of experience or an M.S. candidate with 2-4 years of experience to conduct cellular electrophysiology studies using whole cell and single channel patch clamp techniques. The candidate will be well trained in the methods of dissociating and maintaining single cells from cardiac or neural preparations, and expert in the measurement of whole cell currents. Familiarity with computer-based data acquisition and analysis is required. Experience with single channel recordings is preferred. The candidate will become an integral part of a well-established interdisciplinary research effort aimed at designing novel drugs targeted at ion channels. Independence and professional growth will be strongly encouraged through direct participation in internal research meetings and the publication of original research findings. Position #333.

We offer an excellent compensation and benefits package. Forward resume and salary requirements, stating appropriate position number, to: Wyeth-Ayerst Research, Personnel Manager, CN 8000, Princeton, NJ 08643-8000. An Equal Opportunity Employer, M/F/H/V. Principals only.
POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP. Available immediately for molecular biologist with recent Ph.D. to work on the expression of mammalian antibodies in non-mammalian systems. Position should have experience in molecular cloning techniques: a working knowledge of immunology/protein chemistry would be advantageous. The appointment is for a 2-year period at a salary of approximately $32,000 Canadian. Please send curriculum vitae and references to: Dr. G. C. Randall, Animal Diseases Research Institute, P.O. Box 11300, Station A, Ottawa, Ontario K2B 8R9 Canada.

POSTDOCTORAL FELLOWSHIPS AND RESEARCH ASSISTANTSHIPS. Opportunities exist for cross-disciplinary research projects on microbial biofilms in a unique work environment with students in other departments. Will work on research programs in microbiology, chemistry, or engineering in the newly established National Science Foundation Center for Interfacial Microbial Process Engineering. Annual stipends range from $10,000 to $13,000 per year with tuition remission. Submit inquiries to: Dr. John Sears, Department of Chemical Engineering or Dr. Gill Geesey, Department of Microbiology, Montana State University, Bozeman, MT 59717.

POSTDOCTORAL RESEARCH ASSOCIATE. Immediately available with the Protozoa Diseases Laboratory for major or minor role of the recombinant avian lymphomas in avian immune system and in poultry diseases. Candidate must have a Ph.D. in biochemistry, immunology, or molecular biology. Salary commensurate with experience. Send applications (SF-171) to: Dr. H. Lillehoj, United States Department of Agriculture, Agricultural Research Service, protozoa Diseases Laboratory, Building 1040, Room 100A, BARC-East, Beltsville, MD 20705-2350 or telephone: 301-544-1771. Applications should be marked 18015 and received by 1 July 1991. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Position is immediately available to investigate novel recombinant mammalian systems. Position involves the use of mammalian cells and transgenic mice. Experience in mammalian cell culture, molecular biology, and transgenic animals is highly desirable. Send curriculum vitae and names of at least three references to: Dr. John M. Hajjar, National Institutes of Health, 10 Center Drive, Baltimore, MD 20892. NIH is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Position available for Biochemistry Ph.D. or M.D. who has experience in molecular biology and the ability to work independently. Send curriculum vitae to: Dr. David A. Bush, Department of Physiology, University of Minnesota, 601 Delaware Street S.E., Minneapolis, MN 55455. NIH is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Position available immediately, to work on problems related to the role of thyroid hormones in the development and function of the central nervous system. Good experience in rodent cell culture. Send curriculum vitae and letters of recommendation to: Dr. J. E. James, Department of Pharmacology, University of California, Los Angeles, CA 90024.

POSTDOCTORAL RESEARCH ASSOCIATE. Open immediately, to work in the field of gene regulation and cellular differentiation in the chicken embryo. Candidate should have a Ph.D. in genetics and have written and published in this field. Send curriculum vitae and names of three references to: Dr. Robert B. Goldman, Department of Biology, University of California, Berkeley, CA 94720. NIH is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Position immediately available to: 1) work in the area of molecular physiology of the kidney; 2) work with rat and canine kidney cells; and 3) work with renal cell culture and genetic techniques. Please send curriculum vitae and three letters of recommendation to: Dr. R. L. Levenson, Department of Physiology, University of California, San Francisco, CA 94143.

POSITIONS OPEN

ALCOHOL-DRUG, CULTURAL PSYCHIATRY, AND GERIATRIC PSYCHIATRY FELLOWSHIPS
The Department of Psychiatry and Behavioral Sciences at the University of Michigan Health Sciences Center is offering 1- and 2-year fellowships in alcohol-drug, cultural, and geriatric psychiatry for PGY-4 and PGY-5 psychiatric postgraduate trainees, including one and three letters of reference, to: Joseph Wetsmerr, M.D., Ph.D., Chair, Department of Psychiatry and Behavioral Sciences, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190-3048. The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW UNEXPECTED OPENING FOR JULY 1991
M.D. or Ph.D. interested in exciting laboratory research in gene therapy project using human bone marrow cells and animals. Position is open for a United States citizen or permanent resident. Salary commensurate with experience. Send resume to: Dr. Arthur Bank, Columbia University College of Physicians and Surgeons, 630 West 166th Street, New York, NY 10032. Columbia is an Equal Opportunity Employer.

POSTDOCTORAL FELLOW
Position open for scientist with background in biochemistry to join an active group studying the mechanisms of intercellular communication at the molecular and cellular level. Areas of vascular biology to be studied include the role of growth factors, cytokines, eicosanoids, G-proteins, and lipid second messengers. Research provides excellent opportunity for collaboration and advancement to a faculty position. Fellow will be appointed for a 2-year term beginning 1 July 1991; stipends will be funded by our on-going NIH training program in Cardiovascular Biology. Requirements are a Ph.D. or M.D. and U.S. citizenship or permanent resident. Please send curriculum vitae and addresses of three references to: Dr. David P. Hajar, Professor of Biochemistry and Pathology, Director, NIH Training Program, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITION
Receptor biochemistry of brain in prion diseases. Salary supported by National Institute of Neurological Disorders and Stroke U54 NS 14684 grant. Requires U.S. citizenship or permanent resident visa. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
MOLAR CANALIZATION: IMMUNE RESPONSES TO DENTAL CARIES AND CROWN DESTRUCTION. Appointment immediately available to work on a project supported by NIH grant No. DE-02575 for research on immune responses to caries and crown destruction. The project is based on studies of the role of cellular and humoral immune responses in caries and crown destruction, and involves the use of in vitro and in vivo techniques. The fellowship will support one postdoctoral fellow for 3 years. Send curriculum vitae, two letters of recommendation, and names of three references to: Dr. R. P. Fisher, Department of Oral Biology, University of Maryland, School of Dentistry, Baltimore, MD 21201. NIH is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW
POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE
Molecular basis of prostate cancer is desirable. Send curriculum vitae and three letters of recommendation to: Dr. J. E. James, Department of Surgery, University of California, San Francisco, CA 94143.

POSTDOCTORAL RESEARCH ASSOCIATE
Open immediately to conduct research on the molecular basis of cancer development and metastasis in humans. Experience and training in molecular biology and cell biology are required. Send curriculum vitae and three letters of recommendation to: Dr. J. E. James, Department of pathology, University of California, San Francisco, CA 94143.

POSTDOCTORAL RESEARCH ASSOCIATE
Open immediately for research on adoptive immunotherapy for cancer. Send curriculum vitae and names of three references to: Dr. R. P. Fisher, Department of Surgery, University of California, San Francisco, CA 94143. NIH is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
Open immediately to conduct research on the molecular basis of prostate cancer. Send curriculum vitae and three letters of recommendation to: Dr. J. E. James, Department of Surgery, University of California, San Francisco, CA 94143.

POSTDOCTORAL RESEARCH ASSOCIATE
Open immediately to conduct research on the molecular basis of prostate cancer. Send curriculum vitae and three letters of recommendation to: Dr. R. P. Fisher, Department of Surgery, University of California, San Francisco, CA 94143. NIH is an Equal Opportunity/Affirmative Action Employer.
Biological Significance of Lipid Modification of Proteins

October 11–14, 1991
Keystone, Colorado

Organizers: Jeffrey Gordon, Washington University
Paul Englund, Johns Hopkins University
John Glomset, University of Washington

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Bristol-Myers Squibb Pharmaceutical Research Institute

Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our extensive research efforts in the areas of cardiovascular, infectious and metabolic diseases. This expansion has created several exceptional opportunities for Research Scientists at our Princeton, NJ and Wallingford, CT facilities.

PHARMACOLOGY
(Princeton, New Jersey)
Positions are available in the following areas:
• Experiment with anesthetized and conscious animal preparations, especially canine models of heart failure or hypertension, and perform surgery and statistical analyses. Reply to Dept. 210A.
• Prepare perfusion solutions, microelectrodes and other apparatus for electrophysiology experimentation. You will also handle/provide care and dose small animals, collect and prepare cardiac tissues for in vitro study. Reply to Dept. 210B.
• Evaluate antithrombotic drugs in vivo and ex vivo. Other responsibilities include surgery, platelet function and blood coagulation testing as well as conducting experiments in animal models of thrombosis. Reply to Dept. 210C.
• Conduct experiments on the effect of novel agents on the atherosclerosis in vivo. Responsibilities include computer-based image analysis, vascular surgery, histology, electron microscopy and animal care. Reply to Dept. 210D.

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

MICROBIAL MOLECULAR BIOLOGY
Natural Products Program
(Wallingford, Connecticut)
• Ph.D. in Biochemistry or Microbiology and a minimum of 5 years experience in natural products research required. Experience in microbial assays and both thin layer and HPLC chromatography is essential. Experience in microbial fermentations would be an asset. Reply to Dept. 210E.
• B.S. or M.S. in Biochemistry or Microbiology with 1-2 years of experience in natural products research required. A background in chromatography, both TLC and HPLC is desirable, as is experience with microbial fermentations. Reply to Dept. 210F.

Please forward your resume (including dept. code#) to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.
POSITIONS OPEN
CARRIAGE BIOCHEMIST. RESEARCH SCIENTIST for small startup company in California developing novel oligosaccharide sequencing technology. Ph.D. or equivalent experience, knowledge of glycocarbohydrate structure and experience with conventional sequencing technology required. Competitive industrial salary and fringe benefits offered. Job requires staffing and laboratory supervisory skills. Resumes to: Glyko, Inc., 81 Digital Drive, Novato, CA 94949.

PHYSICIAN. Experiences professional to participate in development of instrument, data analysis software, and applications methodologies. Must be able to communicate well with engineers and marketing professionals. Excellent presentation skills required. Will travel and make presentations to scientific assemblies. Ph.D. in physical chemistry or related field with related research experience preferred. Send resume with salary history to: Beckman Instruments, Professional Staffing, 1050 Page Mill Road, Palo Alto, CA 94304. Equal Opportunity Employer.

Physician. The National Heart, Lung, and Blood Institute is recruiting for a physician who is Board-certified in cardiology, and is an expert in carrying out studies to determine forearm vascular blood flow and resistance. The candidate should have broad experience in performing forearm plethysmography, in studying drugs intra-arterially, and in performing treadmill and bicycle exercise testing. The candidate must have expertise in the available fields of control of vascular tone, including the role of the endothelium. Finally, the candidate must be expert in performing and interpreting echocardiographic studies. Salary range: $45,000 to $60,000. Contact: Dr. Stephen Epstein, Cardiology Branch, Building 10, Room 7B15, 9000 Rockville Pike, National Institutes of Health, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.

PHYSICIST. To work in Newport News, Virginia. 40 hours per week, 8 a.m. to 5 p.m.; $42,000 to $44,000 per year. The incumbent will lead the effort in the design, instrumentation, installation, and operation of highly segmented large drift chambers to be used for charged particle tracking in the CEBAF Large Acceptance Spec-trometer (CLAS). Develop read-out electronics, electronic systems, cooling systems, gas distribution systems, experimental techniques, and instrumentation for the on-line monitoring of the drift chamber system and for the on-line analysis of the drift chamber data. Develop techniques for structural stability computations and measurements. Requirements: Doctorate plus 1 year experience in electron device physics, and more than 1 year experience in computer programming experience in Calorimetry, Nuclear Physics, Inorganic solid state physics, and more than 1 year experience in accelerator physics. Inorganic Solid State Physics, and more than 1 year experience in radiation effects. The University of Cincinnati is an Equal Opportunity / Affirmative Action Employer.

ASSISTANT RESEARCH IMMUNOLOGIST. Program in Transplant Immunology is offering a position for a molecular immunologist with expertise in human immunogenetics and transplantation immunology. Candidate must have a Ph.D. degree with at least 3 years of research experience in cloning and analyzing genes in human immunogenetics and HLA system involving: serology or cellular immunology, T cell cloning, molecular genetics as related to histocompatibility, immunology. Responsibilities will include: Studies on antirejection gene regulation, human tolerance induction, and immunosuppression, and transplant recipient. Salary range: $41,600 to $52,400 depending on experience. Send curriculum vitae and reference to: Marvin R. Garro, Ph.D., M.D., University of California, San Francisco, 520 Health Sciences East, Third and Parnassus Avenue, San Francisco, CA 94143-0508.

POSITIONS OPEN
NEUROBIOLOGY/NEUROPATHOLOGY CLINICAL INVESTIGATOR
Position in Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota. Seeking Board-certified neuropathologist with primary commitment to support basic neurobiological research and secondary commitments to shared teaching and service responsibilities with other full-time neuropathologists. Candidate should have an established track record of successful investigation in the fields of neurobiological research and experience in competing for grant support at national/international levels. State-of-the-art facilities, excellent research equipment, start-up support and the extensive resources of the Mayo Clinic research community will be available. Qualified candidates should submit detailed curriculum vitae and bibliography to: B. W. Scheithauer, M.D., Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Employer.

PRINCIPAL RESEARCH SCIENTIST for Columbus area technology development firm to conduct major research projects related to the development of innovative enzyme immunoassay systems for the measurement of a variety of biomolecules including therapeutic drugs, hormones, infectious agents, cancer markers, and serum proteins. Conduct immunological and biochemical techniques including antibody production, protein-hapten and enzyme-antibody conjugations, and proteins purification by the fast protein liquid chromatography system, write effective research proposals and project reports, train and direct the work of other project staff. Four years of experience required in the job described. In addition, must have Ph.D. in biochemistry and have taken, as part of graduate academic record, at least one course in each of organic chemistry and enzyme biochemistry. Also, must have at least two publications in peer-reviewed biochemistry journals. Forty hours per week, 8 a.m. to 5:00 p.m.; $3900 per month. Must have proof of legal authority to work permanently in the United States. Qualified applicants send resume in duplicate (no calls) to: S. Holton, JO#1260258, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

RESEARCH SCIENTIST in MOLECULAR BIOLOGY
Virginia-Maryland Regional College of Veterinary Medicine, University of Maryland College Park, invites applications for a faculty research scientist position in fish molecular virology. Initial appointment will be to the Maryland Agricultural Experiment Station for 3 years, with likelihood of becoming tenure track. Requirements: Ph.D. and postdoctoral experience. Must have at least three years of research experience designing and synthesizing novel enzyme ligands as potential therapeutic agents, and developing new protocols for purity analysis of proteins. Must have experience in the synthesis of biologically active compounds. Research experience should include 2 years hands-on experience in the design and synthesis of potent protease inhibitors implicated in bone diseases and arthritis. Forty hours per week, Monday to Friday, 8:00 a.m. to 4:30 p.m.; $39,000 per year. Please respond in writing to: Dr. Edward S. Stephenson, Search Committee Chair, Regional College of Veterinary Medicine, University of Maryland, College Park, MD 20742. Application deadline is 15 May 1991.

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

RESEARCH SCIENTIST. To design small molecule ligands for enzymes and/or receptors implicated in bone diseases. Plan, supervise, and carry out the enantiomerically selective synthesis of the targets identified and develop new synthetic methodology for the manipulation of chiral pool starting materials. Ph.D. in organic chemistry plus 2 years as a research scientist required. Previous experience must include 2 years hands-on experience designing and synthesizing novel enzyme ligands as potential therapeutic agents, and developing novel immobilization methods for the synthesis of biologically active compounds. Research experience should include 2 years hands-on experience in the design and synthesis of potent phosphates inhibitors implicated in bone diseases and arthritis. Forty hours per week, Monday to Friday, 8:00 a.m. to 4:30 p.m.; $39,000 per year. Please respond in writing to: Dr. Edward S. Stephenson, Search Committee Chair, Regional College of Veterinary Medicine, University of Maryland, College Park, MD 20742. Application deadline is 15 May 1991.

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

RESEARCH SCIENTIST. To design small molecule ligands for enzymes and/or receptors implicated in bone diseases. Plan, supervise, and carry out the enantiomerically selective synthesis of the targets identified and develop new synthetic methodology for the manipulation of chiral pool starting materials. Ph.D. in organic chemistry plus 2 years as a research scientist required. Previous experience must include 2 years hands-on experience designing and synthesizing novel enzyme ligands as potential therapeutic agents, and developing novel immobilization methods for the synthesis of biologically active compounds. Research experience should include 2 years hands-on experience in the design and synthesis of potent phosphates inhibitors implicated in bone diseases and arthritis. Forty hours per week, Monday to Friday, 8:00 a.m. to 4:30 p.m.; $39,000 per year. Please respond in writing to: Dr. Edward S. Stephenson, Search Committee Chair, Regional College of Veterinary Medicine, University of Maryland, College Park, MD 20742. Application deadline is 15 May 1991.

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A SCIENCE Reprint Booklet
Due to the popularity of SCIENCE's recent three-part series by Robert Pool examining the debate over the possible biological effects of electromagnetic fields, we put the articles together in one convenient and comprehensive reprint booklet. The first article looks at the epidemiological evidence for a link between electromagnetic fields and cancer. The second article deals with cell and animal studies, and the third examines policy questions and the politics behind the research.

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This post-doctoral position is in Molecular and Immunoparasitology. Will involve participation in a well-funded project that centers on the identification and characterization of putative host protective recombinant antigens of the early stages of Onchocerca volvulus, and the evaluation of these antigens as candidates for vaccine development. Applicants should have a Ph.D., M.D. or equivalent with experience in Molecular Biology and/or Immunology. Salary Mid $20s plus a generous NYC housing allowance offered. For this position send CV, with names and telephone number of three references, to: Dr. Sara Lustigman, Associate Investigator, Laboratory of Virology and Parasitology.

Senior Research Technician/
Research Assistant

Study the mechanism of inactivation of viruses contained in platelet concentrates and other blood cell components. At least three years of experience with molecular biology/virology techniques, including the isolation and analysis of RNA is required. Familiarity with viral nucleic acids, infectivity assays and PCR is desirable, but not essential. For this position send CV to: Dr. Henrietta Nunno, Dept of Research & Development.

Send all resumes to:
The New York Blood Center
310 East 67th Street
New York, New York 10021

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RESEARCH SCIENTIST: To perform analytical biochemical research related to pharmaceutical compounds. Develop analytical technology to support pharmaceutical analysis in biological matrices using HPLC, GC/MS, U/VIS, ECD, Biosensors, infra-red, and nucleotides. Ph.D. in analytical chemistry plus 2 years of experience performing analytical chemical research required. Previous experience must include 2 years of hands-on experience performing chemical research utilizing reverse-phase and ion-exchange HPLC with electrochemical U/VIS and fluorescence detectors, ECD, and IR. Experience in development and modification of ECD construction of biosensors and synthesis of HPLC column packing materials. Forty hours per week, Monday to Friday, 8:15 a.m. to 4:45 p.m.; $48,000 per year. Please respond to: Position #INS-DM2, Rhone-Poulenc Rorer Central Research, 640 Allendale Road, King of Prussia, PA 19406. Equal Opportunity Employer, E/M/F/H/V.

RESEARCH SCIENTIST: To design and develop experimental models to study cellular interactions in immune responses, particularly in inflammatory reactions. To develop new understanding of the development of polyclonal and monoclonal antibodies to cell surface receptors involved in leukocyte activation and adhesion interactions and to develop monospecific antibodies and explore their structure and function, and identification of potential inhibitors of leukocyte activation, adhesion, and monospecific antibodies. Ph.D. in microbial immunology plus 1 year's experience as research scientist; immunology required. Previous experience must include 1 year's hands-on experience cloning leukocyte adhesion protein genes, and performing molecular analysis of leukocyte adhesion deficiencies, and research in structure and function of phosphotyrosyl-phosphorylated proteins involved in immune responses. Forty hours per week, Monday to Friday, 8:30 a.m. to 4:30 p.m.; $52,000.00 per year. Please respond to: Position #INS-1D1, Rhone-Poulenc Rorer Central Research, 640 Allendale Road, King of Prussia, PA 19406. Equal Opportunity Employer, M/F/H/V.

ASSISTANT RESEARCH SCIENTIST: Duties include: independent design and performance of experiments in mammalian cellular physiology; the responsibility for developing a new, unique approach to study water and solute transport in isolated coronary venules 20 to 50 μm in diameter; the use of surgical skills to dissect, isolate, and cannulate the vessels; and the independent capability to plan experiments, conduct the studies, and write reports on the results. Salary: $2083.33 per month, 40 hours per week. Requires M.D., Ph.D., or equivalent in medical studies, and 2 years of related experience in research in microvascular physiology. Apply at: The Texas Emploment Commission, TEC Building, Austin, TX 78778, Job Order #7575260. Ad paid by an Equal Employment Opportunity Employer.

ANUNCEMENTS

RESEARCH GRANTS AND FELLOWSHIPS

The American Epilepsy Society and the Epilepsy Foundation of America offer research grants and fellowships. For applications and guidelines write: Epilepsy Foundation of America Research Administration 451 Garden City Drive Landover, MD 20785 Telephone: 301-459-3700

RESEARCH INQUIRIES INVITED

The Smokeless Tobacco Research Council, Inc., invites inquiries regarding grant applications. The council will accept research ideas or inquiries on the following topics: (a) smokeless tobacco and health. Research support is a program of grants-in-aid. Grant applications are submitted to the Scientific Advisory Board of the council and will be judged solely on the basis of scientific merit and relevance. Deadlines for submission of grant applications are 31 December for 1 July funding and 30 June for 1 January funding. Address inquiries or requests for applications to: The Smokeless Tobacco Research Council, Inc. 420 Lexington Avenue, New York, NY 10170. Telephone: 212-697-3485.
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