SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing, no abbreviations. No ad accepted must be at least 2 weeks after date of issue in which ad appears. Also, personal advertisements (welcoming new neighbors, sell a house, sex, religion-age, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISING DEADLINES: Thursday, 1 a.m., 2 weeks prior to issue date (mailed on issue date). Deadline for display advertising, please contact Scherago Associates.

POSITIONS WANTED

406 per word, plus $4 for use of box number; per week, $10 minimum, per week. Prepayment required. This rate is available to individuals seeking jobs.

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth): $40.00 per line, $4.00 minimum, per week (minimum charge is for one single column; each inch equals 10 lines of 52 characters and spaces per line). No charge for use of box number. No agency commission for ads less than 4 inches. No copy submitted. Prepayment required for all foreign ads. Purchase orders and cover letters including billing address required for all other advertising.

To ESTIMATE ad cost: Structure your ad to use a separate page, on lines of 52 characters and spaces. Include any desired heading. Each line of heading, and/or extra line spaces, and all partial lines (including centered reply information) are counted as full lines. Ad titles located within the text are counted in both cases, and are only 52 characters per line. In ESTIMATING the cost, multiply total lines x $4.00 = approximate cost of ad. This is an approximate cost ONLY. Allow for variation between estimated lines and actual typeset lines and the resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.

CANCELLATION POLICY: NO Ad cancellations made after Thursday. Two days prior to issue date incur a 10% production charge. Final deadline for cancellations is 12 p.m. Tuesday, one week prior to issue date. Cancellations must be in writing.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/6 page in size (30 lines) to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6555

Send copy for Fractional Display ads, 1/6 page and larger, and Marketplace ads to:

Scherago Associates, Inc.
1015 Broadway
New York, NY 10016
Telephone: 212-758-1050

Blind ad replies should be addressed as follows:

Box (give number)
SCIENCE
1320 H Street, NW
Washington, DC 20005

POSITIONS WANTED

Bioclinet/Immunologist, M.S. research and development of monoclonal antibodies. Work involves investigation of biochemical and immunologic methods. Budget and staffing responsibilities. Seeks industrial research-management position. Box 77, SCIENCE.

M.S. Plant Biochemist. Three publications in plant enzymology/physiology. Experienced plant tissue culture/phytosphere and many biochemical techniques. Nursery and botanic garden experience. Seeks position utilizing broad based skills in biochemistry and plant science. Box 78, SCIENCE.

Research Scientist, Ph.D. Looking for an interesting research project. Background in wound healing, plasma proteins, and connective tissue. Box 70, SCIENCE.

Toxicologist, Ph.D. Board-certified with 10-plus years of industrial experience seeks position in California: chemical, consumer product, pharmaceutical, and hazardous waste site experience. Box 71, SCIENCE.

POSITIONS OPEN

ADVANCED RESEARCH ASSISTANT position with nationally known NIH-funded Parkinson's disease research program at pharmaceutical company. Responsibilities include management of tissue culture laboratory and execution of experiments under supervision. Requirements: B.S. or M.S. in biological sciences or related disciplines and at least 2 years of experience using tissue culture techniques. Preference will be given to applicants with a more specific background in neurotoxicology. Salary: $25,000 to $30,000 per year plus benefits. Send curriculum vitae and names of two references to: Dr. Dino DiMonte, Institute for Medical Research, 2260 Clove Drive, San Jose, CA 95128.

ASSISTANT PROFESSOR APPLIED MATHEMATICS
Assistant professor level of applied mathematics. This is a tenure-track position. A person is sought with an active research program in the application of mathematics and/or statistics to toxicology and occupational medicine. Candidates are sought who have an interest in the mathematical modeling of biological events. Current research programs involve modeling carcinogen biochemistry, neurotoxicity of chemicals, pharmaco kinetics of xenobiotic chemicals, deposition of chemicals in the respiratory tract and cancer surveillance. Active collaboration in one or more of these areas is available. Teaching responsibility for two courses per year. Experience in teaching medical and graduate students. Excellent computational facilities, including supercomputing, available. Send curriculum vitae and names of five references to: Dr. B. Menzel, Department of Community and Environmental Medicine, University of California, Irvine, CA 92717.

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

The University of Idaho is currently accepting applications for the position of ASSISTANT PROFESSOR IN FISH ECOLOGY. Required qualifications include an earned doctorate, expertise in fish ecology, good communication skills and proven research ability (design, conduct and reporting of results). Desired qualifications include expertise in the ecology, habitat, and management of fish populations and effectiveness in the classroom, and demonstrated ability to obtain research funding and publish results. Additional desired qualifications are statistical/quantitative skills, ability to work as a team member, and demonstrated skills in interagency cooperation. Salary is commensurate with experience. Search will be closed when a sufficient number of qualified candidates have been identified but not earlier than 15 June 1989. Send letter of interest, résumé, and three letters of recommendation to: David H. Remsen, Chairman, Search Committee, Department of Fish and Wildlife Resources, University of Idaho, Moscow, ID 83843. Telephone: 208-885-6357 or 208-885-7123. The University of Idaho is an Equal Opportunity/Affirmative Action Employer and Educational Institution.

POSITIONS OPEN

ASSISTANT PROFESSOR, tenure-seeking, with specialty in immunology. With a strong research record and research in annual 12-month duties. Expected to develop research program focusing on water quality, including ground and surface water systems, lakes, rivers, ponds, and reservoirs in Nebraska. Will also teach courses in limnology, advanced limnology, and related courses in fisheries or ichthyology. Requires Ph.D. in limnological or aquatic ecological science. Preference will be given to those with demonstrated teaching abilities. Remit letter of application, complete résumé, names and addresses of three references, and arrange to have three reference letters sent by 23 June 1989 (or until a qualified candidate applies thereafter) to: Dr. Gary L. Herder, Head and State Forester, Department of Forestry, Nebraska State Forestry, Lincoln, Lincoln, NE 68583-0814. Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF OKLAHOMA DEPARTMENT OF ANATOMICAL SCIENCES
One tenure-track ASSISTANT PROFESSOR position available. Teaching responsibilities would comprise instruction Gross Anatomy to Medical, Dental, Graduate or Allied Health students. Candidates should possess a Ph.D., M.D., D.D.S., or equivalent degree and at least 1 year of postdoctoral experience. The Department has been under new leadership for the last 12 months and has undergone considerable development and expansion. Current faculty research interests include neurotransmitter histone release and neurotransmitter, neural response to injury, structure and histochemistry of autonomic nervous system, tissue culture/ cell biology of immune system, and immunohistochemical techniques. Preference is given to candidates with demonstrated teaching abilities. Remit letter of application, complete résumé, and three letters of reference by 30 May 1989 to: David W. Kline, Chairman, Search Committee, Department of Anatomical Sciences, University of Oklahoma, College of Medicine, P.O. Box 26901, Oklahoma City, OK 73190. Closing date for applications is 31 July 1989. We are an Equal Opportunity/Affirmative Action Employer.

The Center for Neural Science at Brown University has a tenure-track position for ASSISTANT PROFESSOR level for an individual to carry out theoretical research on synaptic modification in the mammalian visual cortex. Candidates with interests in theoretical and computational aspects of neurobiology are encouraged to apply. Preference is given to candidates with demonstrated experience in neural networks, computer simulations and neuronal modeling, and an interest in interaction with experimentalists working in neuronal plasticity. Current faculty interests are in the Center include the theoretical and computational aspects of understanding synaptic plasticity in the neocortex. Interested candidates should submit curriculum vitae, a description of their research and teaching experience, and the names of three references not later than 1 July 1989 to: Dr. Ford Ebner, Center for Neural Science, Brown University, Box 1953-J.A., Providence, RI 02912. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR TENURE-TRACK DEPARTMENT OF OTOLARYNGOLOGY

The Otological Research Group is seeking a biochemist with a background in carbohydrate/protein biochemistry with an emphasis on receptors, or cell adherence related to mucosal injury and/or developmental biology, to develop a biochemical/molecular biological program in the Department of Otolaryngology. Additional qualifications include background in mammalian cell culture and biological, biochemical, or molecular expertise required. Send curriculum vitae with three professional references to: Ms. Teresa Martin, The Ohio State University, Otological Research Laboratories, 456 West 10th Avenue, Room 4351, Columbus, OH 43210.
OXYGEN ISOTOPE ANALYST

The Unocal Science & Technology Division has an immediate opening for an Oxygen Isotope Analyst at the Fred L. Hartley Research Center in Brea, California (about 35 miles east of Los Angeles).

We are seeking a person to operate an oxygen isotope extraction line for the analysis of silicate rocks and minerals. This facility supports the research and technical service needs of the oil and gas, geothermal, and minerals divisions of Unocal. The minimum qualifications for this position are a BS degree in chemistry, geochemistry, or geology, preferably with some post-graduate education or training, especially in isotope geochemistry; one or more years of experience operating high-vacuum lines, especially silicate extraction with bromine pentfluoride; and the ability to expand our isotopic analytical capabilities to include the isotopic analysis both of oxygen in water and of hydrogen in silicates and water. A broad knowledge of isotopic applications, especially to geologic problems, and a familiarity with mass spectrometry are highly desirable.

U.S. citizenship or permanent U.S. residency is required. Qualified candidates should send a resume to:

John S. Mahar
Supervisor, Human Resources
UNOCAL CORPORATION
Science and Technology Division
P.O. Box 76, Dept. 89017
Brea, CA 92621
An Equal Opportunity Employer.

Immunologists

Hawaii Biotechnology Group, Inc. is seeking highly motivated individuals to join its Immunology Group. We are an equal opportunity employer.

Director - Immunology Group

Experienced scientist (Ph.D. or M.D.) to lead and direct immunochemistry research involved in development of immunoassays and immunotoxins, isolation of marine natural products, and development of novel uses for monoclonal antibodies. Hands on involvement expected. Develop new product proposals, contract research and grant proposals. Industry management experience desirable. This position offers an outstanding opportunity to shape the future growth of the business and share in its rewards.

Immunologist

Ph.D. responsible for investigation of immunoconjugates and immune reactions of marine natural products for development of immunoassay, immunoprophylactic and immunotoxin systems. Develop and write new research proposals. Individual must take scientific initiative and responsibility for projects and project development.

Hawaii Biotech offers excellent salary and benefits, opportunities for equity participation, and a location with quality of life second to none. Send your application, resume and three references to:

Tom Humphreys, Ph.D.
Vice President
Hawaii Biotechnology Group, Inc.
99-193 Aiea Heights Drive
Honolulu, Hawaii 96701

TOXICOLOGY

IIT Research Institute, a leading R&D organization based in Chicago, has an opening in its well-equipped inhalation toxicology laboratory for a Research Toxicologist. The chosen candidate will assume responsibilities as study director for acute, subchronic and chronic toxicity/carcinogenicity studies.

Responsibilities will include participation in design, supervision and conduct of experiments, preparation of protocols and SOPs, scheduling of studies, interpretation and evaluation of results and preparation of reports.

Candidates should have a PhD in toxicology, pharmacology or related discipline and 2-5 years of post-doctoral experience in toxicology. Preference will be given to candidates having experience in inhalation toxicology. Demonstrated technical writing skills a must. Knowledge of GLP regulations and various testing guidelines is desirable. ABT certification is preferred; eligibility is required.

The position offers excellent opportunities for collaborative work with staff members involved in immunotoxicology research. Salary commensurate with qualifications and experience. Please submit resume including salary history to Ms. Lucy Amsi, Sr. Personnel Representative, IIT Research Institute, 10 West 35th Street, Chicago, IL 60616. Equal Opportunity/Affirmative Action Employer. M/F/V/H.

SCIENTIFIC AND COMMERCIAL LAUNCH OPPORTUNITIES

The University Corporation for Atmospheric Research (UCAR) has entered into an agreement with NASA that provides an opportunity to launch qualified payloads for scientific and commercial purposes. Utilizing External Tanks of the National Space Transportation System, payloads up to 450 kg and 1 cubic meter may be accommodated. Requests on your company, institution or agency letterhead for a User's Guide should be addressed to UCAR's program manager:

EXTERNAL TANKS CORPORATION
1877 Broadway
Boulder, CO 80302

UNOCAL 76
The Department of Pharmacology and Toxicology invites applications for the position of ASSISTANT PROFESSOR level. Although all qualified candidates will be considered, preference will be given to individuals whose basic research interests are in the following areas: immunology, immunopharmacology, immunotoxicology, molecular biology in pharmacology/toxicology, neurological toxicology, and cell or molecular research in the biologic effects of drugs. We are seeking individuals with demonstrated ability to develop an independent research program and to participate in the teaching of a course in a biological approach to the effects of drugs on the central nervous system. Preference will be given to candidates who have experience in research with chemical, cellular, or molecular orientation. It is hoped to make an appointment as early as the first half of 1990.

Applications are being accepted from persons with graduate training in pharmacology, and proven accomplishment in nutrition or the following sciences related to nutrition: biochemistry, or cell or molecular genetics, with a strong research component. Individuals with demonstrated ability to develop an independent research program and to participate in the teaching of a course in a biological approach to the effects of drugs on the central nervous system. Preference will be given to candidates with experience in research with chemical, cellular, or molecular orientation. It is hoped to make an appointment as early as the first half of 1990.

Applications are being accepted from persons with graduate training in pharmacology, and proven accomplishment in nutrition or the following sciences related to nutrition: biochemistry, or cell or molecular genetics, with a strong research component. Individuals with demonstrated ability to develop an independent research program and to participate in the teaching of a course in a biological approach to the effects of drugs on the central nervous system. Preference will be given to candidates with experience in research with chemical, cellular, or molecular orientation. It is hoped to make an appointment as early as the first half of 1990.

Applications are being accepted from persons with graduate training in pharmacology, and proven accomplishment in nutrition or the following sciences related to nutrition: biochemistry, or cell or molecular genetics, with a strong research component. Individuals with demonstrated ability to develop an independent research program and to participate in the teaching of a course in a biological approach to the effects of drugs on the central nervous system. Preference will be given to candidates with experience in research with chemical, cellular, or molecular orientation. It is hoped to make an appointment as early as the first half of 1990.

Applications are being accepted from persons with graduate training in pharmacology, and proven accomplishment in nutrition or the following sciences related to nutrition: biochemistry, or cell or molecular genetics, with a strong research component. Individuals with demonstrated ability to develop an independent research program and to participate in the teaching of a course in a biological approach to the effects of drugs on the central nervous system. Preference will be given to candidates with experience in research with chemical, cellular, or molecular orientation. It is hoped to make an appointment as early as the first half of 1990.

Applications are being accepted from persons with graduate training in pharmacology, and proven accomplishment in nutrition or the following sciences related to nutrition: biochemistry, or cell or molecular genetics, with a strong research component. Individuals with demonstrated ability to develop an independent research program and to participate in the teaching of a course in a biological approach to the effects of drugs on the central nervous system. Preference will be given to candidates with experience in research with chemical, cellular, or molecular orientation. It is hoped to make an appointment as early as the first half of 1990.

Applications are being accepted from persons with graduate training in pharmacology, and proven accomplishment in nutrition or the following sciences related to nutrition: biochemistry, or cell or molecular genetics, with a strong research component. Individuals with demonstrated ability to develop an independent research program and to participate in the teaching of a course in a biological approach to the effects of drugs on the central nervous system. Preference will be given to candidates with experience in research with chemical, cellular, or molecular orientation. It is hoped to make an appointment as early as the first half of 1990.
Program of Excellence in Molecular Biology of the Heart and Lung

Postdoctoral Positions

The National Heart, Lung and Blood Institute of the NIH has awarded the University of Cincinnati Medical Center a “Program of Excellence in Molecular Biology.” The goals of the Program are to provide skills development and research opportunities in the molecular biology of heart and lung. Individuals begin at the postdoctoral level and progress to junior faculty status over the course of five years. New Investigators will initially work closely with the sponsor but in the final year will develop a research problem separate from that of the sponsor, and apply for independent funding to enable the Investigator to move to another institution if desired.

The Program is open to Ph.D.s or M.D.s with a strong background in molecular genetics who wish to apply their skills to significant problems of heart and lung or individuals with strong backgrounds in heart and lung who wish to develop molecular genetics tools for continued study of these problems. We are particularly interested in recruiting minorities to the Program. Stipends are competitive, beginning at $25,000 per year and moving to $37,000 in final years. The core faculty are:

1. Jerry Lingrel – Regulation of the Na,K-ATPase genes and RFLP analysis of diseases such as familial hypertension. Identification of the cardiac glycoside binding site using site specific mutagenesis.
2. Jeffrey Whitsett – Characterization of lung surfactant proteins and genes.
7. Steven Potter – Insertional mutagenesis for identifying critical genes in heart and lung development.
8. Arnold Schwartz – Structure and function of Ca++ channel proteins and gene regulation; isolation of receptors for calcium antagonists.
9. Judith Harmony – Proteins and genes involved in neutral lipid transfer; the regulation of cell proliferation and differentiation by apolipoproteins.
10. Thomas Doetschman – Gene targeting in ES cells using homologous recombination. Focus will be on vasculogenesis, angiogenesis and cardiogenesis.

Applicants should submit a C.V. and the names of three references to Jerry B Lingrel, Ph.D., Director, Program of Excellence in Molecular Biology, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, 231 Bethesda Avenue, Cincinnati, Ohio 45267-0524.

Affirmative Action/Equal Opportunity Employer
Ph.D. Cell Biologist/Biochemist

Monsanto's Central Research Laboratories is seeking an accomplished Ph.D. Cell Biologist/Biochemist for their Cell Culture/Biochemistry Group. This individual will conduct studies on the biological properties of tumor cell derived autocrine factors using in vitro models of tumorigenesis and metastasis. This position requires an individual with expertise in the areas of cell culture and protein purification. This will be a highly interactive position requiring effective communication and organizational skills.

Candidates should submit a letter of application, a curriculum vitae and the names of three individuals familiar with their recent research from whom letters of recommendation may be solicited. Please submit responses to: Joseph E. De Larro; MONSANTO COMPANY; 800 N. Lindbergh Blvd.; St. Louis, MO 63167.

Equal Opportunity Employer M/F/HV.

Careers for people with ideas

Monsanto
The Aga Khan University is now in its sixth year of operation. Its affiliated Aga Khan University Hospital has well equipped teaching and service laboratories and will have 654 beds when fully operational. The University and the University Hospital are autonomous, privately-funded and philanthropic institutions committed to the provision of effective health professional education and health services relevant to Pakistan and the region.

Applications are invited from highly committed professionals for the following key positions in our Microbiology Department:

ASSOCIATE PROFESSOR

Candidates applying for this position must have an M.B.B.S. and M.R.C. Path or equivalent qualifications, preferably with experience in a Clinical Microbiology laboratory. Candidates having experience of teaching in a Medical College; routine diagnostic services and medical research will be given preference.

The current research work in the Microbiology Department focuses on the Immunology of Mycobacterial diseases and the candidates are encouraged to develop their own areas of interest.

ASSISTANT PROFESSOR

Candidates applying for this position must have a Ph.D in Microbiology or related subject with experience in Bacteriology/Virology will be preferred. The incumbent will be required to participate in teaching and research activities.

Salary and benefits will be offered commensurate with qualifications, experience and level of responsibility. Candidates intending to pursue a career in Pakistan are preferred. If you are seeking professional growth and an excellent environment, please send your detailed résumé, bibliography and names of at least three referees familiar with recent work history to the Personnel Manager, The Aga Khan University, P.O. Box 3500, Stadium Road, Karachi-74000, Pakistan.

AIDS Research at the Centers for Disease Control

Atlanta, Georgia

Research Microbiologist

The Laboratory Investigations Branch, HIV/AIDS Division seeks a senior scientist to participate in a broad spectrum of Branch activities. The principle function of this position will be to characterize the structural and regulatory proteins of HIV and to study the immune response and natural history of HIV infections. This scientist will be part of the existing effort at CDC to develop and evaluate new technology for detecting and characterizing HIV infections. This position will also act as a consultant to CDC epidemiologists on laboratory issues relating to seroprevalence studies conducted in the U.S. and internationally.

Prefer candidates have a Ph.D. in Microbiology, Molecular Biology, or Biochemistry and at least three years of post-doctoral experience in the use and development of monoclonal antibodies, synthetic peptides, immunoassays, and recombinant DNA technologies. Salary will depend on experience.

For additional information regarding the position, contact Richard George, Ph.D. at (404) 639-3765. Interested applicants should send their applications and curriculum vitae to: William R. Hudson, Personnel Management Specialist, Centers for Disease Control, 1600 Clifton Road, Atlanta, Georgia 30333. CDC is an equal opportunity employer and provides a smoke-free work environment.

EMBL

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, West Germany has the following vacancies at its outstation in Grenoble:

Structural Molecular Biologist

The Grenoble Outstation of the EMBL is a structural molecular biology laboratory which aims to combine expertise in biophysical techniques (notably neutron and X-ray methods) with modern methods of molecular biology. The laboratory is situated at the Institut Laue-Langevin, a high flux neutron source and adjacent to the future European Synchrotron Radiation Facility and is well equipped for neutron scattering, X-ray crystallography (including access to a FAST detector), electron microscopy, dynamic light scattering and molecular biology. Current interests include the molecular biology and X-ray crystallography of surface viral glycoproteins (adenoviruses and myxoviruses) and amino acyl-tRNA synthetases, the dynamics of proteins studied by inelastic neutron scattering, the structure and dynamics of supercoiled DNA and in-vivo deuterium. There are vacancies for up to three staff scientists to contribute to existing projects or to initiate new projects suited to the scientific environment of the laboratory.

Candidates in the following areas will be considered (the examples are not to be considered exhaustive):

a) Neutron scattering in biology (e.g. high resolution neutron crystallography of deuterated proteins, or low resolution crystallography of macromolecular complexes).

b) X-ray protein crystallography (including new techniques such as diffuse scattering or Laue diffraction).

c) Molecular biologist/biochemist with an interest in structural problems (e.g. protein/nucleic-acid interactions, virus/cell interactions).

Staff scientists will be appointed on an initial contract of three to five years on grades 8 or 9 depending on experience. An above-average tax-free salary is offered. Certain allowances are payable in addition, depending on personal circumstances.

Further information and application forms can be obtained by writing (with enclosed CV and brief statement of interests) to the Director quoting reference no. 89/22: EMBL Grenoble Outstation, c/o ILL, 156X, 38042 Grenoble Cedex, France.
**PhD TERATOLOGIST/REPRODUCTIVE TOXICOLOGIST**

Wyeth-Ayerst pharmaceuticals has an immediate opening for a PhD level Teratologist/Reproductive Toxicologist to direct pre-clinical reproductive and developmental toxicology studies within the Drug Safety Evaluation Division. Entry level senior candidates with appropriate background will be considered. The position requires broad based technical expertise and skills in interpreting safety data as well as the ability to communicate results orally and in writing. Skills in fetal visceral and skeletal examinations in common laboratory species and in assessment of potential postnatal functional/behavioral effects are highly desired.

The successful candidate will work on a cooperative basis with senior level personnel to define and characterize the reproductive and developmental toxicologic potential of a broad range of potential therapeutic agents.

The Wyeth-Ayerst Drug Safety Evaluation Division is located between the foothills of the Adirondack Mountains and the shores of Lake Champlain. The area offers the benefits of a relaxed rural lifestyle and a wide range of outdoor recreational activities while being within easy driving distance of such cultural centers as Lake Placid, New York, Burlington, Vermont; and Montreal, Canada. Wyeth Ayerst is an equal opportunity employer offering the successful candidate an attractive benefits package and a salary commensurate with experience.

Please send resume and salary history in confidence to:

Gary D. Wagoner, Personnel
**Wyeth-Ayerst Research**
Rouses Point, New York 12979

An Equal Opportunity Employer M/F/H/V

**POSITIONS AVAILABLE**

**Associate (Tenured)/Assistant (Tenure Track) Professor**

University of Minnesota Medical School
Department of Laboratory Medicine & Pathology

Two faculty positions are available, depending on the qualifications, for candidates who hold a Ph.D. or M.D. in biomedical sciences, with postdoctoral experience in matrix protein molecular biology, or chemical synthesis of peptides to interact with group research effort on tumor metastasis, wound healing and diabetic complications. Individuals will also be expected to develop or continue individual research program in an area of interest to him/her. Demonstration of prior research productivity is necessary for Assistant Professor candidates and an established record of research productivity is needed for Associate Professor candidates including publications in peer reviewed journals. Individuals will be involved in teaching and assisting with graduate student advising.

**Research Associate/Assistant Professor (Non-Tenured)**

University of Minnesota Medical School
Department of Laboratory Medicine & Pathology

A research associate/assistant professor (non-tenured) position is available for candidates who hold a Ph.D. in basic biomedical sciences, with minimum of three years postdoctoral experience in matrix biology recombinant DNA techniques to participate in group research effort on the structure/interactions of basement membrane/extracellular matrix macromolecules. Previous experience in this field is desired.

Applicants should send curriculum vitae and names of three individuals who can provide letter of reference to:

Leo T. Furcht, M.D.
Box 609 UMHC Department of Laboratory Medicine & Pathology
429 Delaware Street SE
Minneapolis, MN 55455

Deadline for receipt of applications is June 15, 1989. The University of Minnesota is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities.

**ASSISTANT DEAN FOR RESEARCH**

The University of Medicine and Dentistry of New Jersey-New Jersey Medical School is recruiting for an Assistant Dean for Research and Sponsored Programs.

The duties of this position include providing technical assistance and consultation to the faculty of the New Jersey Medical School regarding identification of funding sources and development and preparation of grant and contract proposals. This individual will provide increased support to the Office of Research and Sponsored Programs in the administration of research programs.

The successful candidate must have a Doctoral degree in the medical and/or biological sciences as well as experience in grant and research administration and must be eligible for appointment to the faculty.

Please send resume to: Erich Hirschberg, Ph.D., Associate Dean for Research and Sponsored Programs, UMDNJ-New Jersey Medical School, (S), 185 South Orange Avenue, (MSB-C-662), Newark, NJ 07103-2757.

The UMDNJ is an Affirmative Action/Equal Employment Opportunity Employer M/F/H/V.

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Film (right-reading, emulsion face down) or full camera ready art and insertion order must reach: **Scienc**, Short Close Desk, 1515 Broadway, New York, NY 10036 by NOON Mondays (except for legal holidays when material must reach New York by Noon Fridays). Because space is limited, the four-day close page will be reserved on a first-come, first-served basis, at a 15% premium. ¼ and ½ page ads only.

Now you don’t have to wait to find the researchers you need immediately, nor must you advertise in a Sunday paper that pans a lot of sand, but not much gold. Scientific employers know that **Science** ads fill the job better. Now they fill it faster too.

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For further information, telephone Ed. Keller, Recruitment Advertising Manager, or Donna Rivera, Production Manager at **Science**: 212-730-1050, or write to: **Science**, 1515 Broadway, NY, NY 10036.

CURRENT DISTRIBUTION 160,000
Postdoctoral and Staff Research Positions

Lawrence Livermore National Laboratory, located in the San Francisco Bay Area, is seeking applicants for several postdoctoral positions and staff research positions in the Biomedical Sciences Division. Initial appointments are for two years with an option for extension.

Candidates should have a B.S., M.S. or Ph.D. degree in Molecular Biology, Biochemistry, Biophysics, or Genetics. Experience in one or more of the following areas is desirable: nucleic acid chemistry, gel electrophoresis, molecular cloning in cosmids or yeast artificial chromosomes, DNA sequencing, nucleic acid hybridization, DNA transfection, protein biochemistry.

Openings are available in:

**Molecular Biology**

A growing effort to investigate the molecular mechanisms of mutation in humans and in animal models. This project seeks to define the DNA alterations associated with spontaneous and induced mutation. Initial emphasis will be placed on the mouse and human hprt loci. Detailed characterization will be performed using pulsed-field gel electrophoresis, conventional restriction analysis, enzymatic amplification of DNA, and sequencing. For further information contact: Dr. Irene Jones (415) 423-3626.

A team research effort to establish macro- and micro-restriction maps and ordered clone maps of the human genome. This project entails the development and applications of clone fingerprinting/walking strategies, contig mapping and closure schemes, library construction and characterization, and mapping by pulsed-field and conventional electrophoresis. Positions are also available for individuals interested in interfacing with an instrument development group to automate sample preparation, restriction mapping, and DNA sequencing. For further information contact Dr. Anthony Carrano (415) 422-5698.

**Human Germinal Mutation**

A team project to develop new efficient molecular approaches for measuring human germinal mutations. The project's goals are to develop methods for measuring specific-locus mutations, aneuploidy, and chromosomal aberrations directly in human sperm. The approach utilizes a variety of protein and DNA techniques including cloning and sequencing human sperm genes, polymerase chain reaction, fluorescence in situ hybridization, as well as fluorescence antibody detection of proteins and cells. Also going on in the laboratory are investigations involving multiple-beam flow cytometry and flow sorting, automated image analysis, and transgenic mice. For further information contact: Dr. Andrew J. Wyrobek (415) 422-6296.

**DNA Repair**

An established project dealing with the genetic and biochemical analysis of human DNA repair genes. Genes are being mapped to specific chromosomes, cloned, and characterized in molecular detail. Repair proteins encoded by cloned genes will be isolated and identified in terms of biochemical functions. Goals include studying the role of repair proteins in DNA replication and recombination (e.g., sister chromatid exchange) and constructing repair-deficient transgenic mice. Major tasks involve antibody production, purification of repair protein from overexpression system, and devising functional assays of protein activity. For further information contact: Dr. Larry Thompson (415) 422-5658.

We offer a highly competitive salary and benefits package. Send curriculum vitae to Earl G. Morell, Professional Employment, Lawrence Livermore National Laboratory, P.O. Box 808, L-725, Dept. KSC58902B, Livermore, CA 94550. U.S. citizenship required. Equal Opportunity Employer.
POSITIONS OPEN

JUNIOR FACULTY POSITION (non-tenure track) available in a new program involving the molecular analysis of host-pathogen interactions. Applicants must have experience in protein chemistry and hematology. Salary negotiable. Applicants should send curriculum vitae and names of three references to: Dr. Titus H. J. Huismann, Department of Cell and Molecular Biology, Medical College of Georgia, Augusta, GA 30903-1800. An Equal Opportunity/Affirmative Action Employer.

MAURY W. BRONSTEIN
PROFESSOR OF PHYSIOLOGY

An endowed tenure-track professorship in cardiovascular physiology closely related areas is available in the Department of Physiology and Biophysics at The University of Tennessee, Memphis. Candidates should have a Ph.D. or M.D. degree, an excellent history of research funding, a well-funded research program, and a strong research background in cellular aspects of cardiovascular physiology or other related areas. The Maury W. Bronstein Professor will be expected to contribute significantly to the development of the cardiovascular research programs within the department and the University. Demonstrated ability to engage in teaching activities of the department are expected. Funding for this position will be through an endowed professorship. Nominations and applications are invited. Applicants should send curriculum vitae and names of three references to: Dr. Leonard R. Johnson, Thomas A. Gerwin Professor of Physiology and Director of the Department of Biophysics, University of Tennessee, 894 Union Avenue, Memphis, TN 38163. An Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

DEPARTMENT OF AGRICULTURE (USDA)
AGRICULTURAL RESEARCH SERVICE

PHYSIOLOGIST/VETERINARY MEDICAL OFFICER

PHYSIOPATHOLOGY RESEARCH UNIT
NATIONAL ANIMAL DISEASE CENTER (NADC), AMES, IOWA

ARS is seeking a scientist to lead its research program on Pathogenesis and Transmission of Salmonellae in Swine. This individual will provide research leadership and technical supervision to a team comprised of two other scientists, three technicians, and two research animal technicians. The primary objectives of this project are to develop and implement strategies that will allow for establishing and maintaining chronic enteric Salmonella infections in swine (carrier state) and develop strategies to eliminate the carrier state.

The candidate must have proven research experience with a strong background in molecular biology, immunology, and virology attributes of pathogenic bacteria; and demonstrated knowledge and skill in communication and leadership.

Ph.D. is desirable. Must be U.S. citizen. Salary is commensurate with experience ($41,121 to $57,138). For information on the position, contact: Dr. Shannon C. Whipp, Research Leader, Physiopathology Research Unit, NADC, or telephone: 515-239-8242. For information on application procedures/forms, contact: Jane E. Carr at 301-344-4569. Applications in response to this advertisement should be marked 9NO23. Applications must be received by 5 July 1989. Mailing address:

USDA-Agricultural Research Service Personnel Operations Branch
Northern Section
Building 419, BARC-East
Beltsville, MD 20705
An Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATES to study the production and function of interferons and other lymphokines by mammalian embryos and cultured trophoblast cells. Applicants must have a Ph.D. and some experience in molecular biology and/or cell culture techniques, plus a background in interest in reproductive biology. Send curriculum vitae to: Dr. R. M. Roberts, 158 ASIC, University of Missouri–Columbia, Columbia, MO 65211.

POSTDOCTORAL FACULTY POSITION—POSTDOCTORAL—The Department of Obstetrics and Gynecology, University of Oklahoma Health Sciences Center in Oklahoma City is seeking an individual with research interest in endometriosis. Training in immunology, biochemistry, and pathology is preferred. Must be skilled in student and resident teaching, research design, and statistical analysis. Send curriculum vitae and bibliography: Robert A. Witt, M.D., Associate Professor, Departments of Obstetrics and Gynecology, University of Oklahoma College of Medicine, P.O. Box 26901, 430750, Oklahoma City, OK 73190.

PHARMACOLOGIST: Faculty/research assistant professor position for appropriate Ph.D. or Pharm.D. Qualifications and experience must include strong medical school teaching skills and research accomplishments. Interested qualified candidates are invited to send curriculum vitae including teaching experience, statement of research interests, research background, prior and current genetics, molecular biology and pathology of acute and chronic diseases. Demonstrated technical writing skills essential. Competitive salaries and benefits, and opportunities for stimulating assignments. Send resume to: Box 73, SCIENCE.

POSTDOCTORAL ASSOCIATE

Postdoctoral opportunity available to study gene products of hepatitis C virus and the carrier state. The laboratory of Dr. Mark Feitelson. Studies include further structural characterization of these products as well as functional consequences for better understanding of virus replication and persistence in chronic infection. Naturally and experimentally infected animal models are available to study the immunology, molecular biology, and pathology of acute and chronic hepatitis infections in swine (carrier state) and develop strategies to eliminate the carrier state.

Major national patent firm located in New York City is seeking a Ph.D. or M.D. Ph.D. or M.D. preferred. The position involves the carrier state.

PHARMACOLOGIST: Faculty/research assistant professor position for appropriate Ph.D. or Pharm.D. Qualifications and experience must include strong medical school teaching skills and research accomplishments. Interested qualified candidates are invited to send curriculum vitae including teaching experience, statement of research interests, research background, prior and current genetics, molecular biology and pathology of acute and chronic diseases. Demonstrated technical writing skills essential. Competitive salaries and benefits, and opportunities for stimulating assignments. Send resume to: Box 73, SCIENCE.

POSTDOCTORAL FELLOW—RESEARCH ASSOCIATE

Gene Expression/Transcription Factors

The Laboratory of Molecular Endocrinology at the Massachusetts General Hospital seeks a postdoctoral fellow or research associate to work on the regulation of polypeptide hormone genes. Previous experience in molecular biology is required. The laboratory is focused on studies of the cis and trans factors that lend cAMP-mediated and cell-specific expression to polypeptide hormone genes. A microchemical facility for protein sequence/synthesis and DNA synthesis is available. Salary and rank are commensurate with experience. Send curriculum vitae and two letters of recommendation to: J. Habener, Chief, Laboratory of Molecular Endocrinology, Massachusetts General Hospital, Boston, MA 02114.

POSTDOCTORAL FELLOWSHIP available 1 July 1989 to study tumor immunodeficiency by in situ hybridization techniques. Send curriculum vitae and names and addresses of three references to: Dr. Howard G. Lowenthal, Department of Microbiology, University of Minnesota Medical School, Box 195 UMC, Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Education and Employer and specifically invites and encourages applications from women and minorities.

POSTDOCTORAL FELLOW: Position immediately available to study repair of carcinogenic DNA damage. Project includes enzymology, photochemistry, radiobiology, and molecular biology. Send curriculum vitae and names of three references to: Dr. Nahum J. Duker, Professor and Head, Department of Radiation Oncology, University of Pennsylvania School of Medicine, Philadelphia, PA 19140. An Equal Opportunity/Affirmative Action Employer.

Diabetes Unit at Massachusetts General Hospital (MGH) seeks a POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE with experience in molecular biology to study the regulatory factors that mediate the effect of insulin on gene expression. Salary is commensurate with experience. Send curriculum vitae with two letters of recommendation to: Dr. M. Bredemann, M.D. Wellman 306, Blossom Street, Boston, MA 02114.

POSTDOCTORAL FELLOWSHIP—NEUROTRANSMITTER RECEPTORS to study the functional responses (channel opening and desensitization) of receptors and their modulation and the molecular mechanisms underlying these responses. Projects include the study of GABA receptor, glutamate receptor, and norepinephrine receptor. The position will be located in the Department of Biochemistry, University of Missouri—Columbia. Write: Dr. Derek J. Cash, Neurochemistry Division, Department of Biochemistry, University of Missouri—Columbia, School of Medicine, 4900 Clarkson Avenue, St. Louis, MO 63139–1494. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL INSTRUCTOR POSITIONS IN ANATOMY. The Program in Anatomy, Development and Neurobiology at Ohio University has two positions for individuals seeking independent training in anatomy, evolutionary biology, neurobiology, muscle biology, functional morphology or biomechanics. Ohio University offers excellent research facilities as well as a strong intellectual environment in these subjects. Each position involves teaching human gross anatomy one quarter per year to medical students. A Ph.D. and prior experience in gross anatomy instruction are required. Ohio University, with a student body of 15,000, is located in a small picturesque town in the Appalachian foothills of Southeast Ohio. Costs of living and housing are moderate. The appointments will be for 1 year, renewable for up to 5 years. Starting salary is $18,000. Application deadline is 15 June 1989. Send curriculum vitae, including statement of teaching experience and research interests, and the names of three references to: Dr. Michael R. Bowron, Associate Professor of Medicine, Room U-917, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461, or call: 212-430-3702.

POSTDOCTORAL POSITION available July 1989 to study microcirculatory characteristics of human abnormal and sick blood by intravital techniques (vid-eco-microscopy, hemodynamic measurements, dual-slit cross-correlation, video-image splitting, fluorescence microscopy). Blood samples will be obtained from human blood and endo-vascular interaction, vascular tone and perfusion conditions. Reply with names of three references to: Dr. D. K. Kaul, Associate Professor of Medicine, Room U-917, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461, or call: 212-430-3702.

POSTDOCTORAL POSITION Available immediately to investigate the regulation of immune function in swine exposed to various stressors. An earned Ph.D. degree in immunology, environmental physiology or endocrinology is preferred. Send curriculum vitae and names of three references to: Dr. Gary Allee, Animal Sciences Department, S105 Animal Sciences Center, University of Missouri, Columbia, MO 65211. Applications must be received by 16 June 1989 or until a suitable candidate is found.

POSTDOCTORAL POSITION for research on transgenic mice. Areas under study include germ cell and embryo development, neurobiology, and oncogenes. Apply with curriculum vitae to: Dr. R. L. Brister, Assistant Professor, Department of Genetics and Developmental Biology, University of Pennsylvania, Philadelphia, PA 19104.
**NEW ENGLAND BIOLABS EXPANSION**

New England Biolabs, Inc., a pioneer and leader in biotechnology, located twenty miles north of Boston near the ocean has begun a major expansion of its research facilities. In addition to competitive salary, NEB offers a very generous fringe benefits package and profit sharing. Attendance at meetings, publication of research results and open communication with others are encouraged. The following positions are available immediately.

**Staff Scientist:**
Gene Cloning in Streptomyces — Ph.D. with a strong background in recombinant DNA techniques to work on projects involving cloning, over-production and mutagenesis of restriction-modification systems in Streptomyces.

**Postdoctoral Positions:**
1. **Gene Cloning**
The candidate should have training in biochemistry/enzymology, molecular biology, or microbiology. Projects involve the cloning, characterization and mutagenesis of restriction-modification systems.

2. **Molecular Parasitology**
The parasitology group at New England Biolabs, Inc. is studying the major filarial diseases. Candidate should have experience in molecular biology and/or immunology. Projects will involve the cloning and characterization of filarial antigens.

**Molecular Biologist:**
Restriction endonuclease purification, requires B.S. or M.S. experience in protein purification. Strong background in molecular biology with emphasis on cloning techniques. Experience with HPLC would be helpful.

Candidates please submit curriculum vitae with three references to:

New England Biolabs, Inc.
Human Resources
32 Tozer Road
Beverly, MA 01915

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**SR. ORGANIC CHEMIST**

GIBCO/BRL Research Products Division of Life Technologies, Inc. is a leading supplier of reagents, chemical and apparatus to the life sciences community.

We are currently seeking an individual to plan and implement development of new organic compounds for use in molecular biology. This involves organic synthesis, analysis using primarily HPLC and the use of basic molecules biology techniques.

The professional requirements are: Ph.D. in chemistry or biochemistry with no post-doctoral experience or MS in chemistry with a minimum of 3 years of experience. The work experience should include chemical modification and purification of proteins and nucleic acids and familiarity with basic techniques in molecular biology.

Send resume to:
Richard L. Hotaling, Jr., Dept. GG
GIBCO/BRL Research Products Division
8717 Grovemont Circle
Gaithersburg, MD 20877
(A suburb of Washington, D.C.)
An equal opportunity employer, M/F/V/H
The Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc., announces an opening for a Senior Research Biologist/Group Leader in the Pharmacology Department of Sterling’s Rensselaer, New York facility.

The successful candidate will have a Ph.D. with a minimum of 3-5 years experience in Cardiovascular Research. Expertise in ischemia and free radical damage is required with a biochemical background preferred.

The Sterling Research Group-Rensselaer facility is located near Albany, New York which is a center for summer and winter recreational activities. We offer an excellent benefits program and an exciting work environment based on a team approach to research and development.

Please send resume, with salary requirements, in confidence to:

Mr. John P. Harvey
Employment Manager
STERLING RESEARCH GROUP
A Division of Sterling Drug Inc.
81 Columbia Turnpike
Rensselaer, New York 12144

A Subsidiary of EASTMAN KODAK COMPANY
"Equal Opportunity Employer M/F/H/V"
Unigene Laboratories, a multidisciplinary biotechnology corporation emphasizing peptide hormone research, is seeking a distinguished and creative scientist for the position of:

**Group Leader Of Protein Chemistry**

- Ph.D.-level scientist, minimum 8-10 years post-degree research experience.
- Will supervise a group of 10-12 scientists, half are Ph.D.-level.
- Broad protein chemistry expertise, particularly in areas of purification and analysis of native and recombinant proteins, enzymology, protein processing, protein refolding.
- Responsible for staffing, budgeting and supervision of all departmental research programs.

Unigene offers an excellent and comprehensive compensation package and the opportunity to work in an environment which fosters continuing professional development. Resumes containing a description of relevant experience and a list of publications should be sent in confidence to:

MS. H. M. DEEGAN  
UNIGENE LABORATORIES, INC.  
110 LITTLE FALLS ROAD  
FAIRFIELD, NJ 07006

Unigene Laboratories is an equal opportunity employer

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**Research Technician**

The Lindsley F. Kimball Research Institute, located in Manhattan's East 60's, is the research arm of The New York Blood Center. Working within one of the world's leading laboratories for basic and applied studies in Transfusion Medicine, its pioneering accomplishments have enhanced the safety of blood transfusion.

The individual we select will aid the investigator using biological techniques. Familiarity with chromatography, cell fractionation, radioisotopes, cell culture and small animals is preferred. BS in Chemistry, Biochemistry or Cell Biology required. Prior experience a plus.

Excellent benefits include $1040 increase after three months, five weeks vacation and eighty-five percent tuition refund.

If qualified, please send resume specifying salary history and requirements, in confidence, to: DB/HUMAN RESOURCES, THE NEW YORK BLOOD CENTER, 310 East 67th Street, New York New York 10021. An equal opportunity employer M/F.

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**RJR-LEON GOLBERG MEMORIAL FELLOWSHIPS**

Postdoctoral Training Opportunities in Integrated Toxicology

Duke University and RJR Tobacco Company now have established training fellowship honoring the eminent toxicologist, the late Dr. Leon Golberg. The program consists of over 50 faculty members representing a wide variety of disciplines including chemistry, ecotoxicology, biochemistry, cell biology, metabolism, molecular biology, pathology, pharmacokinetics and pharmacology. Emphasis is placed on molecular mechanisms of toxicity, in which this program is pre- eminent. A competitive stipend will be offered. Fellows will have the opportunity to spend at least 2 years at Duke or RJR, under the guidance of one faculty member and to interact extensively with other faculty members. Interested individuals should send a CV., a description of their current research project, and the names and addresses of 3 references to:

Doyle G. Graham, M.D., Ph.D.  
Integrated Toxicology Program  
Box 3712  
Duke University Medical Center  
Durham, NC 27710

Duke University and RJR Tobacco Company are Equal Opportunity Employers
POSTDOCTORAL POSITION in epitope research—available for three years in pharmacology or biochemistry to study basic neurochemistry of Petit mal epilepsy using animal models. Salary range $20,000 to $25,000. Send curriculum vitae and three letters of recommendation to: Dr. John Kaiser, Department of Neurosurgery, New England Medical Center (Tufts School of Medicine), 750 Washington Street, Boston, MA 02111.

POSTDOCTORAL POSITION available for 3 years to study physiological properties of olfactory circuits using intracellular recording, real-time voltage-sensitive dye imaging, and neural modeling. Send letter of application, curriculum vitae, and names of three references to: Dr. Adamson Gordon or Daria Mohly-Rosen, University of California, San Francisco General Hospital, Building 1, Room 101, San Francisco, CA 94110. Telephone: 415-476-2858. The University of California is an Equal Opportunity Employer.

POSTDOCTORAL POSITION. Research in airway cell biology with major interest in epithelial cell and smooth muscle interactions. Expertise in all aspects of cell culture and membrane ion transport required. Position available now, funded for minimum of 2 years. Salary range $22,000 to $28,000. Outstanding opportunity to work with a collaborative group. Reply with curriculum vitae and names of three references to: Alan R. Leff, M.D., Department of Medicine, University of Chicago, 5841 South Maryland Avenue, Box 98, Chicago, IL 60637. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN AIDS IMMUNOLOGY

Position available now to study mechanism of cellular immunity to HIV. Our laboratory is utilizing human T cell clones and HIV envelope contact and chemotaxis assays. The position is available immediately to T cell-dependent epitopes of the virus. Mechanisms of T cell cytotoxicity and in vivo cellular defects are being studied. The ideal applicant must have a Ph.D. in molecular biology or related disciplines, and experience in the areas of cellular immunology and virology. Salary range $27,000 to $33,000. Send curriculum vitae and names of three references to: Dr. Robert Carroll, New York University Medical Center, 505 First Avenue, New York, NY 10016.

POSTDOCTORAL RESEARCH POSITION IN NEUROSCIENCE is available immediately for study on the immunohistochemical localization of unique markers in the brain in Alzheimer's Disease. Applicants should have a background in anatomy, neuroscience, immunocytochemistry, and in situ hybridization and a Ph.D. in a related biomedical science. Appointment initially for 2 years. Salary commensurate with experience, excellent fringe benefits. Send curriculum vitae and names of three references to: Dr. A. P. Ordman, Department of Medicine, University of Tennessee Medical Center at Knoxville, 1924 Alcoa Highway, Knoxville, TN 37920. UTMC is an Affirmative Action/Title IX/Section 504 Employer.

POSTDOCTORAL POSITIONS OPEN

POSTDOCTORAL POSITION. To study the cellular and molecular biology of insulin receptor regulation and insulin action. Experience in biochemical and molecular biological techniques required. Send resume and three reference letters to: Dr. P. Berhau, Division of Endocrinology and Metabolism, University of Colorado Health Sciences Center, 4200 East Ninth Avenue—B151, Denver, CO 80262. University of Colorado is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to participate in studies on hormonal and developmental regulation of gene expression in heart and skeletal muscles (J. Biol. Chem. 262, 13316; Proc. Natl. Acad. Sci. U.S.A. 84, 3122). Recent Ph.D. in biochemistry, microbiology, pharmacology, or a related field with strong molecular biology research background is preferred. Opportunity to develop an independent project. Salary negotiable. Send curriculum vitae together with names of three references to: Eugene Morkin, M.D., Director, University Heart Center, University of Arizona Health Sciences Center, Tucson, AZ 85724. An Equal Opportunity/Affirmative Action Employer. Closing date for application is 16 June 1989.

POSTDOCTORAL POSITIONS OPEN

POSTDOCTORAL POSITION IN VASCULAR MOLECULAR/CELL BIOLOGY

Study the expression and function of hemostatic and inflammatory effector proteins synthesized by monocytes and endothelial cells. Current focus is on regulation of the induction and secretion of monocyte-derived cell aggregating procoagulant (surface factor) and the proteins it interacts with. Experience in nucleic acids and/or cell biology techniques, excellent curriculum vitae, statement of interests, and names of three references to: James H. Morrissey, Ph.D., Oklahoma Medical Research Foundation, Program in Cardiovascular Biology, 825 N.E. 13th Street, Oklahoma City, OK 73104.

POSTDOCTORAL POSITIONS

Several postdoctoral positions are available immediately to work on channel protein—structure and function. Research experience in membrane biophysics, molecular biology or protein engineering is required. Send resume, reprints, and two names of references to: Dr. nautuck Montal, University of California San Diego, La Jolla, CA 92032–0319. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

Plant physiologist to study the uptake and metabolism of industrial waste compounds by plant tissue cultures and seedlings. Plant ecologist to expand existing computer database and use it to study the influence of xenobiotic chemicals on terrestrial ecosystems. Salaries: $21,000. Send curriculum vitae and three references to: John Fletcher, Department of Botany and Microbiology, University of Oklahoma, Norman, OK 73019–0245. Telephone: 405–325–4322. OU is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCHER REGULATION OF I-EXPRESSION

THE OHIO STATE UNIVERSITY

Postdoctoral position available 1 July 1989 to study regulation of MHC Class II expression that is controlled by the Bg gene. Applicants should have a Ph.D. degree with experience in membrane biology, molecular biology, immunology, or microbiology cell interactions. Please send a copy of your curriculum vitae and names of three references to: Dr. Bruce S. Zwillinger, Department of Microbiology, The Ohio State University, 2025 Coffey Hall, Columbus, OH 43210. The Ohio State University is an Affirmative Action/Equal Opportunity Employer.

PROFESSOR OF PHYSICAL OCEANOGRAPHY—The Department of the Scripps Institution of Oceanography at the University of California, San Diego (UCSD), is seeking candidates for a full professor (tenure-track or tenured) position in physical oceanography. Salary and rank will be commensurate with qualifications and experience. Candidates should have a Ph.D. degree in physical oceanography or a related science. Applicants should submit a complete curriculum vitae and names of three references in a single bound package to: Search Committee, Scripps Institution of Oceanography, UCSD, La Jolla, CA 92039. Applications received after 1 August 1989 may not receive full consideration. An Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL POSITIONS in Molecular Biology/Immunology to study molecular mechanisms underlying host immune response in humans with Drs. D. G. Marsh and B. Ghosh. The projects include T cell cloning and mapping of T cell epitopes in vivo. Preference will be given to candidates with experience in molecular biology and/or cellular immunology. Salary will be negotiable. Send curriculum vitae and names of three references to: David G. Marsh, Ph.D., Johns Hopkins University School of Medicine, Good Samaritan Hospital, Baltimore, MD 21239. An Affirmative Action/Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS available 1 July 1989. M.D. or Ph.D. to study carbohydrate and membranes using NMR and mass-spectrometric methods to establish structure of stable isotope tracer techniques in animals and humans. M.D. or Ph.D. in cellular biology or engineering fields to develop a hybrid artificial liver based upon liver cell culture and bioreactor designs. Salary consistent with NIH Guidelines. Send curriculum vitae to: Drs. John F. Young and Michael A. M. Fadly for position (1); Dr. Alan Berhanu, Department of Pharmacology, University of Colorado Health Sciences Center, 1944 East Ninth Avenue—B151, Denver, CO 80262. University of Colorado is an Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL POSITIONS in IMMUNOLOGY/TRAINING Position available for M.D. or Ph.D. in the areas of autoimmunity, molecular immunology, retroviral immunology, and T cell development in the laboratories of Dr. Norman Talal, Michael Fischbach, Judy Teale, and Ellen Kraig. Annual salaries from $17,000 to $31,500, depending on postdoctoral experience. Available for a start date as early as July 1989, but applications will be considered for subsequent years as well. Applicants must be U.S. citizens or have permanent resident status. Send curriculum vitae and letter of interest to: Ms. Barbara Boyle, Division of Clinical Immunology, Department of Medicine, The University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATES

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), is seeking postdoctoral research associate positions at the Regional Poultry Research Laboratory, East Lansing, Michigan, in areas of: (1) Fowlpox recombinant viruses; (2) Cellular biology; (3) Cellular and molecular biology; (4) Immunology. Please send curriculum vitae, references, and names of three references to: Dr. K. N. Wang, Department of Animal Science, Michigan State University, East Lansing, MI 48824. Equal opportunity Employer. Applicants must be commensurate with experience ($28,852 to $34,580). Please send curriculum vitae or SF-171, application for federal employment, and names of three references to: Dr. K. N. Wang, Department of Animal Science, Michigan State University, East Lansing, MI 48824. Equal opportunity Employer. Applicants must be commensurate with experience ($28,852 to $34,580). Please send curriculum vitae or SF-171, application for federal employment, and names of three references to: Dr. K. N. Wang, Department of Animal Science, Michigan State University, East Lansing, MI 48824. Equal opportunity Employer.

TWO POSTDOCTORAL POSITIONS in neurochemistry to study the genetic and pharmacological control of neurotransmitter systems in rodents using biochemical, electro-physiological, and immunohistochemical techniques. Preferbly, candidates should have experience in molecular biology and/or cellular immunology. Salary range $27,000 to $33,000. Send curriculum vitae, letter of interest and names of three references to: Dr. A. P. Ordman, Department of Medicine, University of Tennessee Medical Center at Knoxville, 1924 Alcoa Highway, Knoxville, TN 37920. UTMC is an Affirmative Action/Title IX/Section 504 Employer.
Request for Applications

RESEARCH PROGRAMS IN CYSTIC FIBROSIS

The Cystic Fibrosis Foundation announces competitive awards for research related to cystic fibrosis (CF):

RESEARCH GRANTS AND NEW INVESTIGATOR GRANTS

Application Deadline: September 1 Support for pilot and feasibility studies to develop and initially test new hypotheses and methods. Support of up to $30,000 in annual direct costs for two years may be requested.

RESEARCH SCHOLAR AWARDS

Application Deadline: September 1 Corresponding to the NIH's Research Career Development Awards, these awards are designed to encourage a sustained commitment to CF from scientists engaged in outstanding, independent research careers. Support of up to $100,000 per year for three years may be requested. Applicants must contact the Foundation before submission of proposals.

RESEARCH FELLOWSHIPS

Application Deadline: September 1 Awards for postdoctoral training in basic or clinical research. Stipends are available for $30,000 (first year), $31,000 (second year), and $33,000 (optional third year).

CLINICAL RESEARCH GRANTS

Application Deadline: October 1 To support clinical research focusing on the pathophysiology, diagnosis and/or therapeutic management of CF. Funding request and duration of the award should reflect the nature of the study.

HARRY SHWACHMAN CLINICAL INVESTIGATOR AWARD

Application Deadline: August 1 Special award for promising physicians entering academic appointments with commitment to establishing research careers related to CF. Total of $60,000 in annual direct costs for three years may be requested.

Interested individuals are encouraged to contact the Foundation to discuss the relevance of their work to cystic fibrosis. For further information, contact Robert J. Beall, Ph.D., or Dale S. Glass, M.S., at the

Cystic Fibrosis Foundation
6931 Arlington Road
Bethesda, Maryland 20814
(301) 951-4422

CASE WESTERN RESERVE UNIVERSITY

Dean of Medicine and Vice President for Medical Affairs

Case Western Reserve University invites nominations and applications for the positions of Vice President for Medical Affairs and Dean of the University's School of Medicine. Both positions are currently held by Richard E. Behrman, M.D., who has resigned effective August 1, 1989, to become director of the new Packard Center for the Future of Children. The University anticipates that one candidate will be appointed to the two positions.

The Vice President for Medical Affairs is a member of the University's senior administrative group, responsible to the President for medical education and research, including interactions with affiliated teaching hospitals and other organizations, planning for capital needs, and working with other administrative officers to see that University services effectively serve these objectives. The Vice President reviews all recommendations from the School of Medicine for faculty actions, for budgets, and for policy changes before they are submitted to the President.

The Dean serves as chief executive of the School of Medicine, the largest and oldest of the University's six professional schools and one of the world's leading centers of medical education and research. The Dean provides academic and administrative leadership for a faculty with more than 1,000 full-time members and 1,200 part-time members. The School enrolls over 800 students in curricula leading to the M.D., to the Ph.D. in various biomedical sciences, and to the joint M.D.-Ph.D., and is a national leader in programs for innovative medical education. The School's budget for the 1988-89 academic year is approximately $80 million, of which about two-thirds represents external support for research. This total does not include compensation for full-time faculty that is derived from patient care programs. The Dean represents the School to other units of the University and to external audiences in the public and private sectors, and provides leadership in strategic planning and in identifying and attracting the financial resources needed by the School.

Nominations and applications may be submitted for review by the search advisory committee: Chairman, Search Advisory Committee for Dean of Medicine and Vice President for Medical Affairs Office of the President Case Western Reserve University Cleveland, Ohio 44106

Review of submissions will begin immediately, and will continue until an appointment is made.

In employment as in education, Case Western Reserve University is committed to Affirmative Action and Equal Opportunity.
POSI TIONS OPEN

POSTDOCTORAL ASSOCIATE—Exciting research on interactions of cell membranes with drugs, anesthetics, and alcohol. Facilities and funding for these studies are excellent. Experience in one or more of the following areas required: protein–lipid interactions, membrane protein reconstitutions, lipid bilayers, cell membrane isolation and characterization, fluorescence spectroscopy, phospholipases, etc. Positions suitable for new or recently qualified Ph.D.; available immediately or possibly at a later date. Send curriculum vitae and the names of three references to: Dr. H. G. Klemcke, Announcement No. 9W025, USDA-ARS Meat Animal Research Center, P. O. Box 271, Jefferson Alumni Hall, Thomas Jefferson University, Philadelphia, PA 19107. Thomas Jefferson University is an Equal Opportunity/Affirmative Action Employer.

The USDA–Agricultural Research Service (ARS) is seeking a POSTDOCTORAL RESEARCH ASSOCIATE in virology. This position involves research on the biosynthesis of viral RNA, a major step in the viral replication cycle. Working under the direction of Dr. M. S. Nebooka, the investigator will be involved in developing applications for this research. Applicants should have a Ph.D. degree in virology, biochemistry, or a related field. Interested persons should send curriculum vitae, copies of three representative publications, and the names of three references to: Dr. M. S. Nebooka, USDA-ARS Meat Animal Research Center, P. O. Box 271, Jefferson Alumni Hall, Thomas Jefferson University, Philadelphia, PA 19107. Thomas Jefferson University is an Equal Opportunity/Affirmative Action Employer.

PROTEIN ASSOCIATE

Research associate position to conduct research on the nature of interaction between cytomegalovirus (CMV) and human immunodeficiency virus (HIV) in various cell systems. Involves detailed analysis of changes in transcription and elucidation of the roles of other cellular proteins. Applicants with a Ph.D. in biochemistry and/or virology are encouraged to apply. All qualified applicants must quote job number 20247272 and submit curriculum vitae to: The Rockefeller University, 1230 York Avenue, New York, NY 10021. The Rockefeller University is an Equal Opportunity/Affirmative Action Employer.

PUBLIC EDUCATION DIRECTOR

SOCIETY FOR NEUROSCIENCE

A new position has been created in a large, vigorous, and growing scientific society. The Society seeks a long-term program to educate and inform the general public about basic neuroscience. Activities will include preparation of material for lay media representatives and arranging contacts with the media throughout the year, development of source materials and databases for the lay media in neuroscience and exploration of effective means to directly educate the general public about the field. The position will be located in the Society's central office in a desirable part of Washington, D.C. Applicants must have a bachelor's degree with a background in science and a minimum of 6 years of work experience; graduate training, preferably in neuroscience, is desired. Successful experience in preparing descriptions of scientific material for nonprofessionals and/or in the preparation of press and media activities are essential. The position will demand an active, creative person. A competitive salary, commensurate with experience and benefits and a good working environment will be offered.

If you are interested in a unique opportunity in the Nation's capital to help interpret an exciting field of science to the public, send a résumé with a letter and examples of material you have prepared for general audiences to: Society for Neuroscience, 11 Dupont Circle, N.W., Suite 500, Washington, DC 20036. For first consideration, applications must be received by 19 June 1989.
Virologist
School of Veterinary Medicine
Purdue University

The Department of Pathobiology, School of Veterinary Medicine, invites applications for a tenure track faculty position in veterinary virology. The successful candidate will be expected to develop an independent, competitively funded, creative research program which may be in collaboration with other scientists at Purdue University, teach virology and participate in graduate courses in molecular virology in the department’s graduate program, direct graduate students, and serve as a consultant to the Indiana Animal Disease Diagnostic Laboratory on campus.

The ideal candidate will possess a DVM or equivalent degree and a PhD degree in molecular virology or viral immunology, or a PhD degree in virology and research training in animal health. Postdoctoral research experience is preferred. The position will be filled at the assistant, associate, or full professor level depending upon the candidate’s qualifications.

The Department of Pathobiology is comprised of three sections: 1) Anatomic and Clinical Pathology; 2) Immunology and Infectious Diseases; and 3) Epidemiology and Public Health. The department offers a graduate program in collaboration with several major pharmaceutical companies, the Lovelace Inhalation Toxicology Research Institute, and the Indiana Department of Natural Resources. Purdue University provides an exciting research environment with an international reputation in biology, biomedical engineering, pharmaceutical sciences, molecular virology, neurosciences, and comparative oncology.

Please submit a curriculum vitae, a statement of career goals, and the names of three references to:
Dr. Larry Glickman, Head
Department of Veterinary Pathobiology
Purdue University
West Lafayette, IN 47907

Final review of applications will begin September 1, 1989. Purdue University is an affirmative action/equal opportunity employer/educator. Women and minority applicants are encouraged to apply.

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ETHICON, Inc., a member of the Johnson & Johnson Family of Companies, is a major researcher, developer, manufacturer and marketer of sutures and wound closure devices. We are currently expanding our research efforts to the development of wound healing pharmaceuticals.

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The successful candidate will function as a study director of various types of GLP general toxicology studies. Responsibilities include designing experiments, conducting/managing studies, and accurately summarizing and reporting the findings.

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Sandoz Ltd., Basle, Switzerland, one of the world’s leading pharmaceutical companies, is offering a one-year fellowship in glycoprotein research and development.

The successful candidate will work in a highly motivated research and development environment. Main task of the candidate will be to establish efficient polysaccharide characterisation methods and procedures and carry out research on biotechnologically produced glycoproteins.

Applicants require a Ph.D. or an equivalent in Biochemistry and/or related sciences. Remuneration will be based on common standards.

Interested candidates with experience in carbohydrate chemistry should submit their curriculum vitae, names of references and a list of publications as soon as possible, but at latest by June 15th to:

Sandoz Ltd.,
attention Mr. R. Zbinden, Personnel Department, Ref. 9803
CH-4002 Basel, Switzerland
RESEARCH ASSISTANT/ASSOCIATE PROFESSOR

The Division of Molecular Virology and Immunology, Department of Pathology, of the George Washington University Medical Center seeks candidates for a research position at the assistant/associate professor level. Program emphasis is on viral pathogenesis and the development of diagnostic and collection management programs; supervise staff; manage resources. Essential: Teral qualifications in zoology; demonstrated research and publication record; demonstrated experience in phylogenetics and taxon-omy.

Additional information: (0111 61 02) 339 8135

Dr. John L. Gerin
Division of Molecular Virology and Immunology
5610 Fishers Lane
Rockville, MD 20852

An Affirmative Action/Equal Opportunity Employer.

RESEARCH INSTRUCTOR—Non tenure-track position available for individual with Ph.D. in mammalian molecular neurobiology. Experience in teaching medical histology required. Send curriculum vitae with names of three references to: Dr. J. Mullen, Acting Chair, Department of Pathology, University of Utah School of Medicine, Salt Lake City, UT 84132. An Equal Opportunity/Affirmative Action Employer.

RESEARCH POSITION: Applications are invited for a non-tenure position in the Department of Pathology, East Carolina University School of Medicine. Applicants must hold a Ph.D. or equivalent and must have had at least 4 years post-doctoral research experience. They must have extensive experience in the analysis of monoclonal and tissue function and differentiation. Experience in the analysis of immunogenetics and culture of human and animal hematopoietic cells and the isolation of hematopoietic progenitor cells is important. The position will require graduate level teaching. Academic rank will be commensurate with qualifications. Please send curriculum vitae and names of at least three references to: Dr. Alvin Volkman, Department of Pathology, East Carolina University, School of Medicine, Greenville, NC 27834. The University of East Carolina School of Medicine, an Equal Opportunity/Affirmative Action Employer. Federal law requires proper documentation of identity and employability at the time of employment. It is requested that this documentation be included with curriculum vitae. Applications should be received by 24 July 1989.

Openings for VETERINARY PATHOLOGISTS to examine microscopic sections of animal tissues obtained at surgery or autopsy. Analyze tissue, fluids, secretions and other specimens. Give diagnosis and prognosis to determine the presence and status of disease in animals, the nature and probable source of contamination or infection. Cut gross specimens that are to be examined microscopically. Evaluate cytologic specimens. Discuss results with contributing practitioners. Examine skin and kidney specimens for immunofluorescence using a fluorescent microscope. Write newsletter article. Pay: $9.00 per hour. Requires a Ph.D. in Veterinary Medicine with 1 year of experience in job offered or 1 year directly related postdoctoral experience in a surgical pathology laboratory environment. Must be Board-eligible for the American College of Veterinary Pathology. Forty-hour work week. Apply to: Dr. J. Mullen, Acting Chair, Department of Pathology, University of Utah School of Medicine, Salt Lake City, UT 84132. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

The Australian Museum is seeking a SCIENTIFIC OFFICER. Grade: 1 to 4. Salary: $23,098 to $43,575. Inquiries to: AM 9013.

Openings

RESEARCH

The laboratory seeks research associates to study and develop a number of basic research projects in the following areas:

1. Molecular virology/retroviruses
2. Molecular immunology
3. Tumor biology/oncogenes
4. Macromolecular immunocytochemistry/NMR
5. Cellular physiology/signal transduction

There is particular interest in candidates using contemporary methodologies, e.g. transgenic animals. Applicants must have a Ph.D. or M.D. degree with demonstrated research productivity. A strong motivation toward creative research and ability to attract independent funding are desirable. Details are negotiable. Applications must be submitted in writing. Research gifts and fellowships are available.

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POSITIONS OPEN

The University of Miami School of Medicine announces the creation of a senior faculty position for a research scientist in the laboratory of Dr. Joseph Sullivan, M.D., D.M.D., Ph.D. Dr. Sullivan heads the Laboratory of Retrovirology, which is currently involved in the study of retroviruses and their role in human disease. The laboratory is located in the University of Miami School of Medicine, 11455 SW 19th Street, Miami 33175, Florida. Applications should be submitted by January 15, 1989.

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FELLOWSHIPS

ANNOUNCING PUBLIC POLICY FELLOWSHIPS

The Joseph P. Kennedy, Jr. Foundation is accepting applications for its 1-year Public Policy Fellowships in Mental Retardation. The Fellowships provide experience in public policy development related to mental retardation. Applicants must have a minimum of 3 years of experience in the field of mental retardation with background in biological, behavioral, or social sciences, education, medicine or health care, state or local government, or the law. Fellowships normally begin in January, July, or September. Applicants should submit a letter of interest, curriculum vitae, and two letters of support to:

The Joseph P. Kennedy, Jr. Foundation
1350 New York Avenue, N.W., Suite 500
Washington, DC 20005-4709

Deadline for receipt of applications is 1 September 1989 for January start and 1 March 1990 for July or September start.

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And, the exteriors of Gilson fraction collectors are durable, too. For example, the FC 203 features a chemically-resistant molded case and keypad to protect the unit inside and out from spills.

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We also build Gilson fraction collectors for easy installation and use. It starts with compact design. The 202 has the largest capacity of any collector—540 tubes. Yet, it measures only 20 inches wide by 17 inches deep. And the FC 203 takes up only about a square foot of bench space.

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**FC 80 and FC100 micro-fractionators:** Proven performers for simple time and drop collection. Many of these units have been in use for more than 15 years. Racks hold 80 or 100 tubes.

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