POSITIONS OPEN

ASSISTANT PROFESSOR OF PHYSIOLOGY

This full-time faculty position is available immediately. Candidates must have a Ph.D., M.D., D.V.M., or equivalent with research focus in physiology and/or inorganic chemistry, and must have demonstrated excellence in teaching. Preference will be given to candidates who have experience in research and who have a proven track record of teaching and research. The Department of Physiology and Biophysics at the University of Virginia, Charlottesville, VA 22903, is seeking a full-time faculty member to join the Department of Physiology and Biophysics. Applications are encouraged from candidates with expertise in areas related to neurobiology, molecular biology, or cell biology. Individuals with experience in research and teaching are encouraged to apply. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.}}

ECOLOGIST

The Department of Biological Sciences, University of Nevada, Las Vegas (UNLV), is announcing a tenure-track position in terrestrial ecology at the ASSOCIATE PROFESSOR level. The successful candidate will be expected to develop an independent research program and to participate in both undergraduate and graduate education. Preference will be given to candidates with research experience in plant community structure, ecosystem processes, or animal interactions. Dr. B. in a biological science is required; postdoctoral experience is preferred. Send letter of application, curriculum vitae, and three letters of recommendation by 1 September 1990 to:

Dr. Peter L. Stahrwether, Chair
Ecologist Search Committee
Department of Biological Sciences
University of Nevada-Las Vegas
Las Vegas, NV 89154

The University of Nevada, Las Vegas, is an Equal Opportunity/Affirmative Action Employer. UNLV employs only U.S. citizens and aliens authorized to work in the United States.}

ASSOCIATE/ASSISTANT PROFESSOR PHARMACEUTICS

COLLEGE OF PHARMACY
XAVIER UNIVERSITY OF LOUISIANA

Applications are invited for a full-time position in the College of Pharmacy. The applicant should possess a Ph.D. degree in pharmaceutical sciences with an emphasis in research and teaching. The position involves instruction in the preparation of pharmaceuticals and the development of an active educational program with pharmaceutical funding. Rank and salary will be commensurate with experience. Applications will be accepted until the position is filled. Applications should include curriculum vitae including the names and addresses of three references to:

Chairman, Division of Basic Pharmaceutical Sciences
College of Pharmacy
Xavier University of Louisiana
New Orleans, LA 70128

Xavier University is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF WISCONSIN–MADISON
PRINCIPAL CENTER AND THE DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

ASSOCIATE PROFESSOR

A REPRODUCTIVE NEUROBIOLOGIST is required with an excellent record in research in sexual differentiation and fertility regulation of New and Old World primates. Proven success in grants, teaching, and research are essential. The position involves instruction in the areas of obstetrics and gynecology, and research in the areas of reproductive neurobiology. The candidate must hold a Ph.D. in biological sciences and have at least three years of experience in teaching and research. The closing date for applications is 1 September 1990 or until the position is filled. Send correspondence to:

Dr. James C. Schadt
Vice President for Research
University of Wisconsin–Madison

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SCIENCE, VOL. 248
**PROTEIN BIOCHEMIST**

Cangene Corporation, The Canadian Genetic Engineering Company, has developed a new and novel expression technology which the Company is using to produce a range of biopharmaceuticals. The Company is seeking an outstanding individual to fill a challenging position within its Biochemistry Group.

The selected candidate will contribute to the direction of the research of microbial proteases related to the Company’s expression system and apply existing techniques to develop new methodologies for their isolation, purification and characterization. This individual will also be responsible for developing the knowledge required for the understanding of the proteases’ mechanism of action and their activity inhibition.

The successful candidate will have:

- A Ph.D in an area related to Chemistry/Biochemistry of proteins
- Strong updated scientific background and at least three years of postgraduate experience in the area of protease activity and its inhibition
- Sound experience in isolation, purification and characterization of proteins, preferably proteases
- Ability to scientifically direct and manage small project team
- Sound verbal and written communication skills
- Ability to interact in an interdisciplinary manner.

Cangene Corporation is located near Toronto, one of North America’s most livable cities. The Company offers an attractive compensation package and the opportunity to work in a highly creative, goal-oriented atmosphere.

Candidates are required to submit, in strictest confidence, quoting file number C0003: a current curriculum vitae and the names and titles of three referees to: Manager, Human Resources, Cangene Corporation, 3403 American Drive, Mississauga, Ontario, Canada L4V 1T4.

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**RESEARCH SCIENTIST in protein chemistry**

Our client, a major Detroit manufacturing company with modern plant locations throughout the United States, has an exceptional opportunity available for a Research Scientist in Protein Chemistry.

You will be working with a specialized group of scientists in the areas of molecular biology and fermentation. This highly challenging project involves the use of protein engineering in the design of proteins for therapeutic use in humans.

This position requires that you have a Ph.D. or M.S. and experience in state-of-the-art protein chemistry techniques. A strong background in protein purification and characterization along with experience in a wide variety of protein chemistry techniques and instrumentation is essential.

Our client offers a competitive compensation and complete benefits package. Qualified candidates are invited to send their resume to: Confidential Reply Service, Dept. AJK, Thompson Recruitment Advertising, 5000 Town Center, Suite 1800, Southfield, MI 48075. All replies will be forwarded to our client unopened. No phone calls please. Our client is an equal opportunity employer M/F/H/V.

Confidential Reply Service
Thompson Recruitment Advertising
ARS is seeking applicants for the position of director, WRRC, the mission of which is to provide, through chemical, biological, and other approaches, solutions to problems affecting the quality and quantity of the nation's food supply. In addition to providing leadership and operational accountability for WRRC's multidisciplinary research programs, the director participates with agency management in planning, coordinating, and evaluating overall area research programs. The position is a fully-funded position with a salary range of over $13 million, employing 200+ scientists and support personnel. This is a senior executive service position with a current salary range of $172,000 to $383,600 (a significant increase is expected in January 1991). Ph.D. is desirable. Candidates must address managerial and technical evaluation factors listed in announcement. For copy of announcement, call Mr. Lee Triplett at 301-644-6220 by July 20, 1990. Applications must be received by 30 July 1990. ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

CHIEF OPERATING OFFICER. For university consortium with Weyerhaeuser as major DOE contractor on sponsored research and educational activities. Should have experience in research management at the highest levels and the ability to work effectively in complex organizations. This position will report directly to a board composed of the presidents of four public institutions and will be charged with the development of procedures required to implement an existing cooperative agreement among the institutions and the DOE contractor. Endowed chair to: Dr. Betty H. Olson, Chair Program on Environmental Health and Science Program in Social Biology University of California Irvine, CA 92717 Closing date for applications is 30 November 1990. The University of California is an Equal Opportunity/Affirmative Action Employer.

LABORATORY CHIEF POSITION. At the Addiction Research Center (ARC). A position is available to direct a small laboratory of staff and fellows and support staff, within the neuroscience branch. The mission of the laboratory is the utilization of molecular, neurochemical, neuroanatomical, and pharmacologic techniques to explore the mechanisms of action of drugs, drug abuse, and dependence. The role of the chief will be to recruit and supervise staff, plan and conduct experimental studies, and to position the laboratory as an investigator with a Ph.D. or M.D. degree and a substantial track record of achievement. Salary range is $59,216 to $76,981, depending on experience and qualifications. U.S. citizenship is required. Send curriculum vitae to: Dr. Michael J. Kukar, NIDA Addiction Research Center, 6001 Executive Boulevard, Rockville, MD 20852.

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
Applications are invited for appointment at Assistant, Associate and full Professorial rank in the Department of Biochemistry. Candidates must possess a medical degree and/or PhD degree or an equivalent higher professional degree from an accredited university or institution of higher learning, or any higher professional certificate such as Membership or Fellowship in the Royal College of the UK, Ireland, Canada, Australia and New Zealand (MRCP, FRCS, MRC Path, MRC Psych., FFA RCS, MRCOG, FRCS), or the certificate of the American Board or the Arab Board for Medical Specializations. The language of instruction is English.

Candidates for these positions must be able to demonstrate leadership experience in the development of teaching, research and, where appropriate, clinical service programmes.

Persons interested in additional information on applying should send a curriculum vitae including list of publications, copies of certificates and the names of three current referees to:

Joel H. Lanphear, Ph.D.
Associate Dean
Faculty of Medicine
UAE University
PO Box 17666
Al Ain
United Arab Emirates
Fax No: 971 3 638247

Applications will be closed six weeks after date of publication or September 15, 1990 whichever occurs first.

Cargill, a world leader in industry and agribusiness, is seeking two talented chemists who have a demonstrated history of independent accomplishments. The successful candidates will be working to develop new products or new processes based on the separation, manipulation, or modification of agricultural materials. To qualify, a Ph.D. in organic chemistry, biochemistry or related field, or a M.S. plus a minimum of 5 years experience.

Senior Research Chemist Lipids
This position focuses on lipids in agricultural materials such as triglycerides in fats and oils, and phospholipids in vegetable oils. The areas of research will include:
• Enzymatic modification of lipids;
• Determining the effect of processing conditions of fatty acid distribution;
• Chemical and physical characteristics of phospholipids in a non-aqueous environment.

Senior Research Chemist Carbohydrates
This position focuses on Carbohydrates in agricultural materials, particularly the production and utilization of new carbohydrate syrups.
• Lead and conduct several technical projects simultaneously;
• Convert the technology developed into commercial processes and/or products;
• Increase knowledge in enzymology, food technology particularly related to syrups.

Cargill offers a competitive salary, pleasant work environment, and a strong benefits package. If you wish to be a member of a dedicated team of professionals, please send your resume to Donna Bloom.

Cargill
HRD #10, Box 9300
Minneapolis, MN 55440

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If spearheading new breakthroughs in biology and biotechnology is what you have in mind, come to Schering-Plough Research.

Explore your future at the forefront of some of today’s most significant advances in biotechnology. Aggressive, goal-driven research gives Schering-Plough its competitive edge in the healthcare industry. This is your opportunity to apply your innovative thinking in exciting areas of research that include the following:

Molecular Biology—You will be part of a research project focused on cloning and expression of the immunoglobulin repertoire derived from immunization of human lymphocytes in vitro. This will involve a multidisciplinary approach involving cell culture, cDNA cloning using the polymerase chain reaction, construction of antibody chimeras, and heterologous gene expression in E. coli and/or mammalian cells. Requires a Ph.D. in Molecular/Cell Biology, Immunology, Biochemistry or related field. Familiarity with recombinant DNA/ genetic engineering technology preferred.

Biochemistry—To conduct research on the structure of recombinant cytokines and related polypeptides using NMR spectroscopy. Requires a Ph.D. in Biochemistry or related discipline, and a background in the physical biochemistry of proteins and polypeptides, including experience in two-dimensional NMR techniques and distance geometry measurements.

At Schering-Plough, you’ll receive all the support and recognition to pursue your best ideas. In addition to outstanding resources and an exciting research environment, we offer an attractive salary and benefits package. For immediate, confidential consideration, forward your resume and salary history to: Mr. G. Czuba, Schering-Plough Research, 60 Orange Street, Bloomfield, NJ 07003. We are an equal opportunity employer.

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Southern California Location

Baxter Healthcare Corporation, an international leader in the pharmaceutical industry, currently has exceptional career growth opportunities for experienced professionals in our Hyland Division located in Duarte, CA.

**PROCESS ANALYSIS SCIENTIST** Responsibilities include planning and implementing the testing of patient samples from cataloging and shipping through actual testing, developing new assays, and conducting process and assay validation. The ability to develop chemical, biochemical and immunological assays is essential. We also require either a BS degree in Biochemistry or a related field and at least 3-5 years experience or an MS degree and 1-3 years of experience, thorough knowledge of specialized laboratory instruments and familiarity with safe specimen handling practices. (Dept. MB-6)

**VIROLOGY SCIENTIST** You will review and implement specific R&D objectives involving virology. Additional responsibilities include viral infectivity assays, process validation, evaluation of antiviral agents, immunochemical and biochemical assays in retrovirology and process development. To qualify, you must have a BS in Microbiology, Biology, Biochemistry or a related field and at least 3-5 years experience, or an MS with 1-3 years experience. Experience should encompass retrovirology or related lab discipline, background in HIV-1 infectivity assays, familiarity with process validation and GLP and computer literacy. Excellent communication skills and strict interpretation and compliance with sterile technique and biohazard containment a must. (Dept. MB-10)

**IMMUNOLOGY SENIOR SCIENTIST** Concentrating in antibody-based infectious disease treatment, you will assist in developing new technologies/products and processes. We require a Ph.D. in Immunology or related discipline, or Master's degree with at least 2-5 years experience in industrial research and development. You must have a thorough knowledge of immunologic and biochemical techniques with an emphasis on immunochemical characterization and structural and biologic function anal-
with Baxter Hyland.

Characterization Scientist
Primary responsibilities involve the development of methods for molecular characterization of proteins in process and final products, and scanning densitometry of gels. Methods include gel electrophoresis, isoelectric focusing and liquid chromatography of carbohydrates. A BS in Chemistry or Biochemistry coupled with 5+ years experience or an MS required. Knowledge of biochemical methods and familiarity with PCs important. Protein chemistry experience desirable. (Dept. MB-20)

Formulations Scientist
This position involves conducting research for developing new formulations technology, and assisting the manager in defining project objectives. Requirements include a BS with at least 5-7 years experience, or an MS with 3-5 years in the area of formulations. Background in and understanding of the physical/chemical changes that occur during lyophilization required. Working knowledge of basic protein and drug delivery systems a must. (Dept. MB-25)

Immunology Scientist
Primary responsibilities include basic and applied research relating to product support, and assisting with new technology/product development and research efforts in the areas of infectious disease treatment. This position will also support the implementation of monoclonal antibody technologies. We require a BS in Immunology or a related field, and at least 2-5 years experience in industrial R&D. Demonstrated expertise in techniques necessary for mammalian tissue culture, monoclonal antibody production and ELISA/Western method development essential. Must have good verbal and written communication skills. (Dept. MB-20)

Purification Scientists
Opportunities involve developing new techniques and assay methods for evaluating product purity, training the research and production staff in new techniques, and interpreting and communicating experiment results. Senior positions will involve the design/review of project objectives and assisting in timeline/budget projections. We require a Ph.D. or MS in Biochemistry or a BS with 3+ years related experience. Knowledge of protein purification, development of assay methods, and GLP/GMP essential. Senior level positions require 3+ years industrial or post-graduate academic research experience with 1+ years supervisory responsibility. Ability to work flexible hours important. (Dept. BF-01)

Characterization Supervisor
Supervising R&D activities in our characterization lab, you will develop analytical techniques/methods, and recommend project timelines, staff and budget. We require a Ph.D. in Biochemistry/Analytical Chemistry with at least 2-3 years in protein characterization and structure/function analysis. Proficiency in HPLC, carbohydrate analysis, amino acid analysis/sequences, CD, ORD, MMR and mass spectroscopy needed. (Dept. BF-50)

Make Baxter—and sunny southern California—your place of choice. Enjoy year-round warm weather and the rewards of a Fortune 100 company, including a smoke free working environment, an attractive salary, and comprehensive benefits. Employment consideration contingent upon the results of a drug screening test. For confidential consideration, please send your resume with salary requirements (please indicate appropriate Dept.) to: Baxter, Hyland Division, Human Resources, 4501 W. Colorado Blvd., Los Angeles, CA 90039.

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lar of Hope National Medical

lar Genetics, the Department of Molecular Genetics at the Beckman Research Institute of the City of Hope invites qualified candidates to apply for a tenure-track faculty position at the ASSISTANT RESEARCH SCIENTIST level (equivalent to an assistant professor appointment at other institutions). Candidates should have a Ph.D. or combined M.D./Ph.D. degree and at least 2 years of postdoctoral experience. In particular, we are seeking applicants with strong research backgrounds in molecular or classical genetics as applied to problems in eukaryotic gene regulation and/or DNA recombination.

The Beckman Research Institute of the City of Hope is a non-profit biomedical research institution affiliated with the University of Southern California and the City of Hope National Medical Center. The Department of Molecular Genetics is part of the Division of Biology, which is located in the San Francisco Bay Area.

The campus is located in a suburban community in the greater Los Angeles area and has convenient access to major academic and cultural centers in this region. Interested candidates should send a letter, curriculum vitae, statement of research interests, and the names, addresses, and telephone numbers of three professional references (one of which should be a nominee for recent Ph.D. thesis supervisor) to: Dr. John J. Curtin, Chair, Search Committee, Department of Molecular Genetics, Beckman Research Institute of the City of Hope, 4555 East Duarte Road, Duarte, CA 91010.

The Department of Animal Sciences, University of Arizona, invites applications for two tenure-track FACULTY POSITIONS in the areas of applied veterinary science. (1) a Ph.D. or M.D. in appropriate fields with experience in areas of interest in the development of inhalation reference doses; research to improve the scientific bases of risk assessment for inhaled chemicals, and technology transfer to state and regional agencies. Only Ph.D. level qualifications are required. The essential qualifications include an advanced degree in toxicology or a closely related biological discipline such as pharmacology, medicine, or epidemiology (equivalent experience may be substituted); a minimum of 1 year of professional experience as a principal investigator or research coordinator, or equivalent experience in research and publications presentations at national scientific meetings on toxicology or health risk assessment.

The University of Arizona is an Equal Opportunity/Affirmative Action Employer.
DEPARTMENT OF NUTRITIONAL SCIENCES
University of Connecticut

The Department of Nutritional Sciences at the University of Connecticut is seeking applicants for the following anticipated positions:

DEPARTMENT HEAD/PROFESSOR—(Search Reopened). Candidates should have strong distinguished teaching and research record as the department has a strong teaching and a well-funded interdisciplinary research program. Responsibilities include providing initiative and vision to departmental development and administering teaching, research and extension. Contact: Gretel Pelto, Ph.D., Chair, Search Committee. Phone (203) 486-1783. (Search #0A271).

ASSISTANT PROFESSOR (9-month, tenure-track). Qualifications include a Ph.D., M.D., D.PH. or equivalent degree. Postdoctoral experience preferred. Candidates who have studied human metabolism using techniques such as stable isotopes, molecular biology or nutritional epidemiology are encouraged to apply. Responsibilities include research and teaching at the undergraduate and graduate levels. Send CV, transcripts, a description of research plans and contact information for three references to: Carol J. Lammi-Keefe, Ph.D., Chair, Search Committee. Phone (203) 486-0116. (Search #0A272).

Interested applicants should send information to the contact person indicated above at The University of Connecticut, Department of Nutritional Sciences, U-17, Storrs, CT 06269-4017. Closing date for application is August 1, 1990.

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

THE UNIVERSITY OF CONNECTICUT

GLAXO INSTITUTE FOR MOLECULAR BIOLOGY

The Geneva molecular biology research institute of one of the world's most successful healthcare groups is recruiting

MOLECULAR BIOLOGISTS

to identify and isolate novel genes

Two positions are available. The successful candidates will have leading roles in two different project groups. One group is investigating the molecular biology of neurotransmission on several levels from receptor to cellular response. The second project group is working to understand the molecular mechanisms underlying signalling through cell-cell contact. Experience with direct expression cloning and expression of cDNA sequences in mammalian cells would be a distinct advantage. The ideal candidates will have a PhD and a proven track record of research.

The Glaxo Institute for Molecular Biology carries out long term research to support the company-wide effort to discover effective new medicines. It provides a dynamic research environment, and encourages the publication of scientific results as well as collaborative projects with academic groups.

We offer an excellent salary and benefits package and opportunities for career development in one of the most attractive parts of Europe.

If you are interested in one of these positions, please send your Curriculum Vitae with a list of publications and the names of three referees to:

Rita Gloor, Personnel Manager, GLAXO IMB S.A., 46, route des Acacias, 1211 Geneva 24, Switzerland.

Investigate a Career with a Leader.

Searle, a world-wide leader in the pharmaceutical industry, invites you to investigate a career with us as a Senior Research Investigator. We are currently seeking such a professional for our Drug Metabolism Department.

The individual in this position will be responsible for developing, validating and transferring bioanalytical methods, including immunoassays and special chemistries, for naturally occurring constituents. In addition, the candidate we select will supervise all activities associated with maintaining an effective and productive Bioanalytical Immunoassay/Special Chemistry Laboratory.

We require a professional with a Ph.D. in Biochemistry, or a related field. Additionally, 2-3 years experience in immunoassay and receptor binding method development is required, and established supervisory skills are desirable.

All the evidence points to Searle for a successful career. For consideration, please send your resume, in confidence, to:

Searle, Human Resources, Dept. PB3, 4901 Searle Pkwy., Skokie, IL 60077.

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Together, we can do a world of good.
PHARMACOKINETICIST: To design and execute protocols for clinical trials of drug products. Conduct pharmacokinetic studies. Evaluate results of clinical trials. Lending scientific support for analysis of drug products in biological fluids. Will prepare reports on results for IND and NDA for submission to the FDA. A Ph.D. or equivalent degree and a minimum of 2 years experience (in a pharmaceutical industry) required in the design, modification, and use of pharmacokinetic and analytical techniques in regulatory, clinical, and non-clinical studies. Knowledge of FORTRAN and statistical analyses required. Salary for 5 days, approximately 40 hours per week. Mail résumé and copy of this advertisement to: Department of Economic and Employment Development, 1100 North Eutaw Street, Room #920, Baltimore, MD 21201. Order No. 8944457. Job location: Rockville, Maryland. Proof of legal right to work in the United States required.

PLANT TISSUE CULTURE. The Land, EPCCOT Center, is seeking to fill a position in plant cell and tissue culture. Responsibilities include the application and development of regeneration techniques for a wide variety of food crops. Routine development of a merchandised tissue culture product, and laboratory maintenance. Requirements include an M.S. degree and an excellent ability to work with people. Please send résumé and three letters of recommendation to: Mr. Paul Buss, Professional Staffing, Walt Disney World Company, P.O. Box 10090, Lake Buena Vista, FL 32830.

PHYSICIANS WANTED

An international organization is currently seeking medical staff for a new children's hospital to be located in Kiev, U.S.S.R., that will study the multiple after-effects of the Chernobyl accident. Pediatric physicians with special qualifications in endocrinology, hematology, and immunology are required immediately. Other specialities will be required before the end of 1990. Contractual periods of service for 1 year are desired but shorter periods will be considered. Salary is negotiable and will be paid in U.S. dollars. Knowledge of Ukrainian or Russian is not essential.

Reply to: Box 65, SCIENCE.

POSTDOCTORAL POSITION

Available immediately to study spinal and supraspinal factors regulating the activity of sympathetic preganglionic neurons. A variety of electrophysiological and neuroanatomical techniques will be used. Experience in extracellular single-unit recording preferable. Contact: L. P. Schramm, Department of Biomedical Engineering, The Johns Hopkins School of Medicine, 266 Tropical Building, 270 Rutland Avenue, Baltimore, MD 21205-2195.

POSTDOCTORAL POSITION IN DEVELOPMENTAL NEUROPHYSIOLOGY

Position available for fall of 1990 to study changes in electrical and pharmacological properties of spinal motoneurons during embryonic development and after injury. Experiments are conducted using isolated spinal cords of rat embryos and spinal cord–muscle explants in organ culture. Send curriculum vitae and three letters of reference to: Dr. Lea Ziskind-Conhaim, Department of Physiology, University of Wisconsin, 1300 University Avenue, Madison, WI 53706. Telephone: 608-263-3382. FAX: 608-262-2327.

POSTDOCTORAL POSITION IN MOLECULAR PLANT VIROLOGY

Applications are invited for a postdoctoral position in the applied molecular biology section, Plant Biology Division, of the Samuel Roberts Noble Foundation. The position will be for 3 years and is available immediately. We are a relatively small group with backgrounds in molecular virology and/or molecular biology. Projects include (i) identifying the symptom determinants of an insect-transmitted DNA leaf blight disease, (ii) cloning and characterizing a mutated strain of tobacco mosaic virus and (iii) implementing novel molecular approaches for the production of virus-resistant plants. Please send a résumé and a list of three references to: Dr. Richard Nelson, Plant Biology Division, Samuel Roberts Noble Foundation, P.O. Box 2180, Ardmore, OK 73402. FAX: 405-221-7562. The position will be open until filled.

POSTDOCTORAL POSITIONS are available to study the gene expression of proteolytic genes in human embryonic stem cells and in cloned human embryos. This position is an integral part of two recently funded NIH grants. Salary range: $20,000 to $25,000, dependent on experience. Candidates should have a Ph.D./M.D. with strong background in virology, immunology, or molecular biology. Experience in mammalian cell culture and names, addresses, and telephone numbers of three references to: Rento V. Izozo, M.D., Department of Microbiology and Cell Biology, Thomas Jefferson University, Room 249, Jefferson Alumni Hall, Philadelphia, PA 19107-6799. Telephone: 215-722-2288. Fax: 215-923-2218. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS AVAILABLE, POSTDOCTORAL through ASSISTANT PROFESSOR level. Gene expression and structure in colon cell differentiation and transformation. Forward résumé and names and references to: Leonard H. Augenlicht, Ph.D., Molecular Oncology Program, Albert Einstein Cancer Center, Montefiore and Albert Einstein Medical Centers, 111 East 210th Street, Bronx, NY 10467.

POSTDOCTORAL POSITION available, University of Florida. Support is available for an individual with a Ph.D., or equivalent degree, in biochemistry, molecular biology, immunology, or microbiology to pursue studies in detection of a new DNA parasite of chickens, Anaplasma marginale. Parasite surface proteins involved in invasion of host erythrocytes will be identified, cloned, and characterized. Applicants must have experience on these surface proteins will be isolated and tested for their immunoprotective efficacy in cattle. Interested individuals should send curriculum vitae, statement of research goals, and names of three references to: Dr. David R. Allred, Department of Infectious Diseases, Building 471, Mowry Road, IFAS 635, University of Florida, Gainesville, FL 32611. The University of Florida is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MOLECULAR NEUROBIOLOGY.

For studies of nicotine acetylcholine receptors and related proteins. Graduate or postdoctoral experience with antibody techniques, and protein purification is required. You will work closely with postdoctoral researchers experienced with molecular genetics, and, to some extent, cross research one another. Research will be conducted at the Institute for Neurological Sciences at the University of Pennsylvania in Philadelphia. Send curriculum vitae and names, addresses, and telephone numbers of at least three references, including your current mentor, to: Dr. Jon Lindstrom, The Salk Institute, P.O. Box 85800, San Diego, CA 92138-9216.

POSTDOCTORAL SCHOLAR, 100% time, $15,000 per year. Position available to investigate posttranslational modification of keratinocyte enzyme. Recent Ph.D. in biochemistry and at least 1 year of experience preferable. HPLC, fatty acid biosynthetic pathways in animals, isolation of enzyme from epidermal tissues, immunohistochemical techniques, and peptide chemistry required. Should have publication record in international journals and ability to work independently. Place of employment and interview: Davis, California. Send this ad and your resume to: Job #RLW15379, P.O. Box 9550, Sacramento, CA 95823-0560, no later than 14 July 1990.

A POSTDOCTORAL POSITION in forest soils/hydrology is available immediately to plan and conduct studies in forest ecosystem recovery and restoration research related to the role of water. The focus is on stream and groundwater quality and treatments to enhance vegetation recovery. Applicant must be a U.S. citizen and have a Ph.D. with a strong background in forest hydrology and/or watershed research techniques, soil and water analytical techniques, and principles of plant ecology are desirable. Position is located at the U. S. Forest Service, Forestry Sciences Laboratory, Charleston, South Carolina; research site is the Santee Experimental Forest in South Carolina. Salary is negotiable and will be extended for an additional 2 years, if necessary. Salary is $35,825. Please send a current curriculum vitae to: K. C. Frey, Institute for Environmental Studies, Santee Experimental Forest Station, SC 29142.

POSTDOCTORAL FELLOWSHIP

The Oregon Regional Primate Research Center (ORPRC) is pleased to announce the availability of a 3-year postdoctoral fellowship (per year plus fringe benefits), as well as a $5,000 laboratory allowance per year to support research in the laboratory of Dr. Ken Iozzo. Ph.D. applicants with 3-5 years experience in postdoctoral training and with a strong interest in cellular and molecular biology and tissue culture applications are encouraged to apply. Newly trained postdocs are especially encouraged to apply. The fellowship is funded by the National Cancer Institute and is available for up to 3 years. Salary is $30,000. Please send curriculum vitae, names and telephone numbers of three references, and a written statement indicating the research area to which the candidate is most interested: Dr. Ken Iozzo, ORPRC, 1215 W. Kent Street, Beaverton, OR 97006. The ORPRC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP MEDICAL PHYSICS

The Department of Therapeutic Radiology at Yale University School of Medicine seeks applications for the position of a postdoctoral fellow. Principal area of research is the physics of radiation therapy. Current areas of research include radiation dosimetry, development of new sources such as americium-241 and palladium-103 for novel applicator designs in brachytherapy, and applications of radiation effects at macro- and micro-levels, superheated drop detectors for neutrons, and biophysical aspects of radiobiology. This postdoctoral training position is funded by the National Cancer Institute (NCI) and is meant for a Ph.D. in physics who is interested in pursuing research careers in medical physics. The salary is competitive. The position is 2 years. Please send curriculum vitae to: Ravidav Nath, Ph.D., Professor, Department of Therapeutic Radiology, Yale University School of Medicine, 333 Cedar Street–HKT #2211, New Haven, CT 06510.

YALE UNIVERSITY POSTDOCTORAL TRAINING FELLOWSHIP MEDICAL PHYSICS

The Department of Therapeutic Radiology at Yale University School of Medicine seeks applications for the position of a postdoctoral fellow. Principal area of research is the physics of radiation therapy. Current areas of research include radiation dosimetry, development of new sources such as americium-241 and palladium-103 for novel applicator designs in brachytherapy, and applications of radiation effects at macro- and micro-levels, superheated drop detectors for neutrons, and biophysical aspects of radiobiology. This postdoctoral training position is funded by the National Cancer Institute (NCI) and is meant for a Ph.D. in physics who is interested in pursuing research careers in medical physics. The salary is competitive. The position is 2 years. Please send curriculum vitae to: Ravidav Nath, Ph.D., Professor, Department of Therapeutic Radiology, Yale University School of Medicine, 333 Cedar Street–HKT #2211, New Haven, CT 06510.

Yale University School of Medicine is an Equal Opportunity/ Affirmative Action Employer.
POSTDOCTORAL FELLOWSHIP. Immediate opening for a 2-year position studying transcriptional regulatory mechanisms in baculoviruses. The candidate must have Ph.D. and a strong background in molecular biology. Experience in animal cell tissue culture would also be an asset. Salary is $32,239 including benefits. Send curriculum vitae and names of three references to: Dr. E. C. H. T. M. van den Berg, Agriculture Canada Research Station, 6660 N.W. Marine Drive, Vancouver, B.C., Canada V6T 1X2. FAX: 604-666-4994.

MOL ecULAR NEUROBIOLOGY POSTDOCTORAL FELLOWSHIP. To study the molecular basis of synaptic plasticity, neural circuitry formation, nerve regeneration, and pathogenesis of medically important neuropathies. Research insulin-like growth factor gene expression and inverse relationship to severity of albino effects (see Proc. Natl. Acad. Sci. U.S.A. 86, 2896; Mol. Brain Res. 6, 109) under NIMH grants. Domestic/foreign applicants equally welcome. Submit curriculum vitae with names and telephone numbers of three references to: Professor Douglas N. Ishii, Physiology Department, Colorado State University (CSU), Fort Collins, CO 80523. CSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE. Position available for Ph.D. or equivalent to study the role of erythrocyte-endothelial interaction in the pathogenesis of vascular disease. Emphasis on sickle cell anemia and related disorders. Background in molecular or cell biology or biochemistry preferred. Send curriculum vitae and references to: Dr. Robert Weinstein, Department of Biomedical Research, St. Elizabeth's Hospital of Boston, 736 Cambridge Street, Boston, MA 02135. An Equal Opportunity Employer.

Sandoz Pharmaceuticals Corporation is responsible for products that improve the quality of life. Our developments are the result of research conducted by professionals who specialize in many different fields.

The Sandoz Research Institute has an opening for a Postdoctoral Scientist to work in a highly interdisciplinary setting using molecular biology, biochemistry, and molecular modeling to explore, at a molecular level, the mechanisms of enzyme action. The research area will focus on targets in lipoprotein metabolism and atherosclerosis as part of an overall effort to develop novel therapeutics in these areas. The candidate is expected to serve as a bridge between disciplines, designing projects in collaboration with the molecular biology, chemistry, and molecular modeling groups. This is a one-year, industry-based position which may be extended up to two years by mutual agreement.

The successful candidate will have a Ph.D. in Biochemistry, Molecular Biology, Bio- Organic Chemistry, or the equivalent or 6-3 years of postdoctoral experience. Experience with molecular biological and biochemical approaches to understanding structure/function relationships of enzymes, and working knowledge at a molecular level of enzymatic reaction required. Some experience with essential computational chemical tools for studying proteins and/or peptides would be preferred.

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in northern New Jersey.

For prompt consideration, please send a curriculum vitae, a list of professional references and a brief summary of prior research experience, to: Sandoz

MOLECULAR EVOLUTION
COLORADO STATE UNIVERSITY

The Department of Biology invites applications for a full professor to initiate a program in Molecular Evolution. The person selected must have a Ph.D., a fully funded research program, and experience and a scholarly record commensurate with full professorship. It is required that the candidate have a strong background in cell and molecular biology and use current methodologies to elucidate evolutionary relationships among a broad spectrum of organisms: protists, fungi, prokaryotes, plants, & animals. Teaching responsibilities will be to participate in courses such as evolution, molecular genetics, and molecular biology, and in graduate education. Salary commensurate with qualifications. Starting date about 1 January 1991. Applicants are asked to send a resumé, reprints of refereed papers, and three letters of reference. Closing date: 30 July 1990. Send applications to: William C. Marguardt, Chair, Molecular Evolution Search Committee, Department of Biology, Colorado State University, Fort Collins, CO 80523 USA

CSU is an AA/EOE Employer. Equal Opportunity Office, 314 Student Services Bldg.

BRANCH CHIEF
Pharmaceutical and Regulatory Affairs Branch, Treatment Research Program, Division of AIDS, National Institutes of Allergy and Infectious Diseases.

NIH is seeking an experienced scientist with a diverse medical and pharmacological background. Requirements include: experience with drug development projects; knowledge of FDA regulations and procedures; experience in clinical trials and protocol management; MD/PhD or equivalent relevant experience. Position involves significant interaction with pharmaceutical companies, the FDA, and other components of NIH. Immediate Opening. Salary commensurate with experience and training. Send CV and/or Application for Federal Employment (SF-171) to:

DADIS/TRP/PRAB Room 202N
6003 Executive Boulevard
Bethesda, Maryland 20892

U.S. Citizenship Required
NIH is an Equal Opportunity Employer
Faculty Positions In

MOLECULAR NEUROBIOLOGY

The Biotechnology Center, in collaboration with academic departments within the colleges of Biological Sciences, Medicine and Pharmacy, invites applications for three joint tenure track faculty positions. Successful candidates will occupy new laboratories on the Neurobiology Floor of the Biotechnology Center and join existing faculty whose research efforts focus on gene expression in nervous tissue during development and aging. This group will shortly expand to 10 faculty.

Applicants for Assistant Professorships should demonstrate exceptional potential to develop strong research programs that apply tools of molecular biology to address significant problems in neurobiology. Senior candidates with ongoing programs of excellence will be considered for an Associate Professorship. Qualified molecular neurobiologists working with vertebrate or invertebrate systems will receive careful consideration. Candidates who utilize transgenic mice in the course of their research are especially encouraged to apply.

The Ohio State University is establishing an outstanding program in molecular neurobiology and neuroscience which is reflected by quality research facilities and highly competitive start-up funds and salary.

Screening of candidates will begin on August 15, 1990. Applicants should submit a curriculum vitae, statement of research plans, and names and addresses of three references to Dr. Anthony Young, Chairperson, Molecular Neurobiology Search Committee, Ohio State Biotechnology Center, Rightmire Hall, 1060 Carmack Rd., Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

THE OHIO STATE UNIVERSITY

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SCIENCE Magazine
New Lab Service Department
1515 Broadway
New York, NY 10036

POSTDOCTORAL RESEARCH ASSOCIATES

Capital District Center for Drug Abuse Research and Treatment (CCDART)

The CCDART, in the Albany area of northeastern New York, is a new multidisciplinary consortium of sixteen investigators from three institutions: the Rensselaer Polytechnic Institute (Department of Chemistry: S. Archer, A. Schutz; Department of Psychology: L. Reid), the Albany Medical College (Department of Pharmacology and Toxicology: S. Glick, L. Hough, A. Schneider, M. Teißier, R. Mankes, J. Carlson, R. Keller), and the State University of New York School of Public Health (Department of Environmental Health and Toxicology: D. Carpenter, W. Shain, A. DeCappio, R. Seegal, A. Snyder-Keller, R. Wawerski). The focus of the CCDART is the development of new drug therapies for drug abuse. The research program includes a broad range of biomedical technology, including medicinal chemistry, receptor and biochemical pharmacology, analytical neurochemistry, morphological toxicology, in vitro and in vivo neurophysiology, and behavioral pharmacology. We have recently received a grant from the Aaron Diamond Foundation to provide research training for three postdoctoral research associates. These positions will be funded for up to three years; the stipend is $25,000 for the first year (inflationary increases for years 2 and 3). It is anticipated that one postdoctoral research associate will be located at each of the three member institutions. These positions are available immediately. For further information, contact one of the following: S. Glick (518 445-5363), S. Archer (518 276-6339), D. Carpenter (518 456-6772). To apply, send curriculum vitae and three letters of reference to: Administrative Director, CCDART, c/o Department of Pharmacology and Toxicology (A-136), Albany Medical College, Albany, N.Y. 12208. Equal Opportunity/Affirmative Action Employer.

Glenrose Rehabilitation Hospital

The Glenrose Rehabilitation Hospital is a leading facility in Canada dedicated to providing excellence in patient care, research and education in rehabilitation for both children and adults. In the spring of 1990, we will be moving into a new building and will be taking that opportunity to introduce a number of new initiatives.

Department of Rehabilitation Technology

This department will focus on the research, development and clinical application of technology, and engineering methods in rehabilitation. We are seeking an energetic, results-oriented person to establish this department as a leader in rehabilitation technology.

Interested applicants should possess a postgraduate degree in a recognized engineering discipline with preference given to those with experience in rehabilitation or biomedical engineering. The successful candidate will demonstrate good communication skills, creativity and a strong interest in improving the quality of life for disabled people.

Interested applicants are asked to forward their current vitae, references and salary expectations to:

Ms. K. Cook
Acting Director of Personnel
GLENROSE REHABILITATION HOSPITAL
10210 - 111 Avenue
Edmonton, Alberta
Canada
TSG 0B7

University of Miami
SCHOOL OF MEDICINE

Research Associate/Postdoctoral positions are available in an integrated, multidisciplinary research group focusing on anatomical, cellular, molecular, electrophysiological, and functional correlates of spinal cord injury (SCI) and repair mechanisms. Specific areas of research include: Schwann cell and central neuronal cell biology, including their role in regeneration after SCI and transplantation (R. Bunge, M. Bunge, N. Kleinman, P. Wood); plasticity, repair, and behavioral recovery of motor and autonomic pathways (V. Holets); pharmacology of acute SCI and ischemia (A. Martinez); molecular biological approaches to CNS regeneration (S. Whittmore); anatomical and functional plasticity of spinal somatosensory pathways (R. Yezierski); recovery of locomotor function following SCI (J. Kim), and clinical neurophysiology of SCI (B. Calance)

Send curriculum vitae and names of 3 references to Dr. Richard Bunge, Scientific Director, The Miami Project to Cure Paralysis, University of Miami School of Medicine, 1600 N.W., 10th Ave. (R488), Miami, FL 33136. The Miami Project is an Equal Opportunity/Affirmative Action Employer.
COLD SPRING HARBOR LABORATORY
SIX FACULTY POSITIONS
MOLECULAR NEUROBIOLOGY

We seek applicants for six new faculty positions in the fields of vertebrate and invertebrate Molecular Neurobiology. This new area of research at Cold Spring Harbor Laboratory will complement the long standing program of courses and lectures in neuroscience held at the Laboratory each Summer. The successful applicants will occupy the new Beckman Neuroscience Building which is scheduled for completion in mid 1991. Both senior and junior faculty positions will be considered.

Curriculum vitae, and brief statement of research interests and names of references should be submitted to:

Dr. Bruce Stillman
Cold Spring Harbor Laboratory
P.O. Box 100
Cold Spring Harbor, NY 11724

Cold Spring Harbor Laboratory
An equal opportunity/affirmative action employer.

Research Opportunities in
ENZYME STRUCTURE AND MECHANISM

The Department of Biochemistry at Wake Forest University Medical Center is in the process of strengthening its research programs in the areas of protein engineering and molecular genetics. State-of-the-art facilities for automated protein sequence analysis and peptide and oligonucleotide syntheses are already available through the recently established Institutional Program in Molecular Genetics. In addition, departmental faculty have access to the GCG sequence analysis software and database updates through a VAX-based network. A new Evans & Sutherland ESV molecular graphics workstation will be delivered in the summer of 1990. Plans have been finalized to include laboratories for both high-resolution x-ray studies and x-ray crystallographic analyses of protein and nucleic acid structures in a new 240,000 square foot research building scheduled for completion in 1993.

The Department of Biochemistry presently has openings at both faculty and postdoctoral levels for research in enzyme structure and mechanism, as described below:

1) Assistant/Associate Professor—applicants at the Assistant Professor level should have 2 years' postdoctoral experience in enzyme structural or mechanistic work, focusing on applications of modern mutagenesis approaches. Applicants at the Associate Professor rank should also have a strong independent research program in place with a solid track record of extramural funding.

2) Assistant Professor—applicants should have at least 2 years' postdoctoral experience including research on the mechanisms of coenzyme-requiring enzymes and expression of cloned genes for these studies.

3) Postdoctoral fellows—expertise ranging from prokaryotic molecular biology to expression and mutagenesis of cloned genes, protein structure-function studies.

Salaries are competitive and negotiable, depending on rank and experience. Send CV and list of publications and arrange to have three letters of reference sent to:

Dr. Moseley Waite, Chairman
Department of Biochemistry
Wake Forest University Medical Center
330 South Hawthorne Road
Winston-Salem, NC 27103
Phone: (919) 748-4373
e-mail: ALC@MIPS.BGSM.WFU.EDU

An Equal Opportunity/Affirmative Action Employer

FACULTY OF MEDICINE
UNITED ARAB EMIRATES UNIVERSITY

Applications are invited for appointment at Assistant, Associate and full Professorial rank in the Department of Pharmacology (Clinical, Toxicology).

Candidates must possess a medical degree and/or PhD degree or an equivalent higher professional degree from an accredited university or institution of higher learning, or any higher professional certificate such as Membership or Fellowship in the Royal College of the UK, Ireland, Canada, Australia and New Zealand (MRCP, FRCS, MRC Path, MRC Psych., FFARCS, MRCOG, FRCP), or the certificate of the American Board or the Arab Board for Medical Specializations. The language of instruction is English.

Candidates for these positions must be able to demonstrate leadership experience in the development of teaching, research and, where appropriate, clinical service programmes.

Persons interested in additional information on applying should send a curriculum vitae including list of publications, copies of certificates and the names of three current referees to:

Joel H. Lamphear, Ph.D.
Associate Dean
Faculty of Medicine
UAE University
PO Box 17666
Al Ain
United Arab Emirates
Fax No: 971 3 638247

Applications will be closed six weeks after date of publication or September 15, 1990 whichever occurs first.

Postdoctoral Training
Toxicology and Carcinogenesis

Positions available for study in various aspects of cancer research and toxicology through the Departments of Biochemistry, Chemistry, Medicine, Pharmacology, and Pathology. Areas of investigation include synthetic chemistry related to toxic chemicals, mechanistic bio-organic chemistry, chemistry of heavy metal antides, DNA-carboxenogen physical interactions, enzymology of animal and human cytochromes P-450 and chromatin proteins, the basis of metal carcinogenesis, chromatin function, hepatocarcinogenesis, eicosanoids, regulation of glutathione metabolism, and NMR and mass spectrometry. Salaries are negotiable.

Faculty

Ian A. Blair
Robert C. Briggs
Raymond F. Burk
Peter Gettins
F. Peter Guengerich

Thomas M. Harris
Mark M. Jones
R. Stephen Lloyd
Lawrence J. Marnett

Applicants should submit curriculum vitae and three letters of recommendation to Dr. F. P. Guengerich, Director, Center in Molecular Toxicology, Vanderbilt University, School of Medicine, Nashville, TN 37232.

An Affirmative Action/Equal Opportunity Employer
AIDS RESEARCH

POSTDOCTORAL FELLOW/RESEARCH INVESTIGATOR to study transepithelial transmission of HIV using a cell culture system. Recent M.D. or Ph.D. degree (or equivalent) required. Send curriculum vitae and names of three references to: Dr. David M. Phillips, The Population Council, 1230 York Avenue, New York, NY 10021.

POSTDOCTORAL ASSOCIATE. Study the molecular and biochemical mechanisms of normal and neoplastic cellular differentiation. Research is concerned with mechanisms which certain drugs induce leukemic cells to mature to adult forms devoid of cancerous potential. Introduce certain genes into malignant cells to identify the pathways that control the maturation program of cancer cells. Requires completion of all requirements for Ph.D. in biochemistry or molecular biology. No specific experience required. Requires strong background in cell culture, cloning sequencing, enzyme purification, protein production and expression, and immunoblot techniques as evidenced by specific research training. Submit a recent scientific journal papers in these disciplines. Monday to Friday, 9:00 a.m. to 5:00 p.m., $18,500 per year. Please send résumé to: Job Service Technical Unit, Connecticut Department of Labor, 200 Foley Boulevard, Wethersfield, CT 06109. Refer to: Job Order #3072666. No calls accepted.

POSTDOCTORAL RESEARCH POSITION. Available to study the biochemistry and cell biology of the action of estrogen in the adult Drosophila. Ph.D. or equivalent, desirable. Send résumé and three letters of recommendation to: Dr. Theodore L. Steck, M.D., Department of Biochemistry and Biophysics, University of Chicago, 920 East 58th Street, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE. MOLECULAR BASIS OF CANCER. Positions available to (i) study the molecular basis of tumor suppressor gene action; and (ii) identify and clone novel genes which modulate expression of the tumor cell phenotype; and (iii) study the biochemical, immunological, and molecular mechanisms associated with the induction of terminal differentiation in human tumors. Expertise in current molecular biological techniques, such as cDNA cloning, library screening, and PCR required. Send curriculum vitae, statement of research goals, and three letters of reference to: Dr. P. B. Fisher, Columbus University, College of Physicians and Surgeons, 650 West 168th Street, New York, NY 10032. FAX: 212-305-8498. Equal Opportunity Employer.

RESEARCH SCIENTIST with Ph.D. in immunology and strong background in microbiology to head up program in Pediatric Otolaryngology Immunobiology Research. A Children's Hospital of Buffalo. Experience required at postdoctoral level. Salary competitive. Send curriculum vitae to: Linda Brodsky, Department of Otolaryngology, Children's Hospital of Buffalo, 219 Bryant Street, Buffalo, NY 14222.

RESEARCH ASSOCIATE. MOLECULAR BIOLOGY/VIROLOGY. Two positions immediately available to join active research group in gene regulation in human immuno- cytes and its relationship to retroviral infection. Familiarity with molecular biology and its application, and a Ph.D. or equivalent is required. Two-year initial appointment, with potential for advancement. Send résumé to: Jeffrey Laurence, M.D., Dr. Susan Astin, Ph.D., Cornell University Medical College, 411 East 69 Street, New York, NY 10021.

ASSISTANT/ASSOCIATE RESEARCH BIOCHEMIST. METABOLIC RESEARCH UNIT. The Metabolic Research Unit has a position available starting immediately for a Ph.D. or equivalently qualified research biologist with an established research interest and program on the mechanism of action of the estrogen receptor. Experience in genetic analysis of receptor action and overexpression of the estrogen receptor for structural studies is required. Ability to obtain extramural funding is necessary for this position. Appointment and salary will be commensurate with qualifications. Send one-page summary of research plan, curriculum vitae, and three letters of recommendation to: Dr. John B. Jaenicke, Section Head, Metabolic Research Unit, 671-HSE, University of California, San Francisco, CA 94143-0516. The University of California, San Francisco, is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

RESEARCH ASSOCIATE. To study the interaction of interleukins and of the hypothalamic-pituitary-adrenal (HPA) axis in animal models of immune and endocrine function. wee small animal surgery, RIA, ELISA, and HPLC. Knowledge of tissue culture helpful. Joint appointment at Shirriner Burns Institute, Massachusetts General Hospital, and Harvard Medical School. Send résumé to: Lorraine L. Levinsky, M.D., 51 Blossom Street, Boston, MA 02114. Equal Opportunity Employer.

RESEARCH ASSOCIATE, BIOCHEMISTRY. Research involves the identification and characterization of extracellular matrix proteins, a role in the activation of diverse signals, gene expression, and pleiotropic response. Clone the promoter regions of several protein-coding genes to identify their developmentally regulated transcriptional activities, e.g., such as by extracting protein from rat liver, purify it by affinity chromatography, characterize it by polyacrylamide gel electrophoresis. Inject protein into rats to raise antibodies. Check results by immunoblotting. Isolate genomic clones; sequence the RNA by di-deoxy chain termination. Determine functions of protein, tabulate, analyze, and publish results. Requires Ph.D. degree in biochemistry. Also requires 3 years of experience in the job to be performed or 3 years of experience as a research fellow or research associate. In lieu of actual Ph.D. degree, may have finished all requirements: experience required must be in biochemistry research. This position is available in July 1991. Applicants received in response to this ad must be marked on OU. ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH, ENVIRONMENTAL PROTECTORATE AGENCY (EPA). Positions available in environmental or occupational health research at Risk Reduction Engineering Laboratory in Cincinnati, Ohio, and Edison, New Jersey. Experience in microbiological, chemical, or biological research, with a broad knowledge of human exposure, interaction, protein purification and expression, and immunoblot techniques as evidenced by specific research training. Submit two recent scientific journal papers in these disciplines. Monday to Friday, 9:00 a.m. to 5:00 p.m., $18,500 per year. Send résumé to: Job Service Technical Unit, Connecticut Department of Labor, 200 Foley Boulevard, Wethersfield, CT 06109. Refer to: Job Order #3072666. No calls accepted.

POSTDOCTORAL RESEARCH POSITION. Available to study the biochemistry and cell biology of the action of estrogen in the adult Drosophila. Ph.D. or equivalent, desirable. Send résumé and three letters of recommendation to: Dr. Theodore L. Steck, M.D., Department of Biochemistry and Biophysics, University of Chicago, 920 East 58th Street, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST with Ph.D. with 4 years of experience in the area of enzyymology and protein purification. Fractionation of enzymes with various column chromatographic techniques and resin, including affinity chromatography with resins and affinity chromatography, isolation and sequencing of DNA. Must have published eight scholarly journal articles. Hours: 9:00 a.m. to 5:00 p.m., 40 hours per week. $28,062 per year salary. Please send résumé to: Illinois Department of Employment Security, 401 South Dearborn Street—Suite 1220, Chicago, IL 60605, Attention: L. Donegan, Reference #1408-D. An employer-paid ad.

RESEARCH SCIENTIST, PHYSIOLOGY/TOXICOLOGY. A position is available in the Department of Physiology and Pharmacology for an assistant research scientist. This is a non-tenure-track faculty position carrying all the rights and privileges of an assistant professor appointment with the exception of tenure. Applicants should have general interest in the area of endocrine system and ideally the interaction of heavy metals with the endocrine system. The position is intended to be full-time research, teaching opportunities at undergraduate, graduate, and professional levels may be available. Salary competitive upon qualifications. Send current curriculum vitae, statement of research interests, and names, addresses, and telephone numbers of four references to: Dr. C. Michael Moriarty, Office of the Vice President for Research, 616 Boyd Graduate Studies Research Center, The University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.
Regeneron Pharmaceuticals, a company dedicated to developing therapeutic agents for degenerative and traumatic neurological diseases, is seeking to apply recent advances in the understanding of neuronal growth and regeneration.

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Please forward your resume, in confidence, to: Ms. Carol Desken, Regeneron Pharmaceuticals, Inc. 777 Old Saw Mill River Road, Tarrytown, NY 10591-6706. Equal opportunity employer.

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**RESEARCH ASSOCIATES**

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Please submit your resume to:

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**ASSOCIATE SCIENTIST**

**MOLECULAR BIOLOGY**

The Bristol-Myers Squibb Company Industrial Division, a leader in biotechnology and a major international manufacturer of pharmaceutical products, has an excellent research opportunity in its Biological Process Development Group in Syracuse, New York. The Biological Process Development Group is rapidly expanding with a new protein recovery and purification facility currently under construction.

The successful candidate will be responsible for the development of microbial strains that produce increased titers of current antibiotics through molecular manipulation or enzymes for biotherapeutics and bioconversions.

Qualifications include a BS or MS in Molecular Biology or related discipline and a strong background in gene cloning. Additional experience in molecular biology of fungal microorganisms is desirable.

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**POSITIONS OPEN**

**RESEARCH DIRECTOR**

**UBIQUITIN BIOTECHNOLOGY**

Proteonix, a biotechnology company involved in the development and commercialization of a proprietary ubiquitin-fusion technology, is seeking a research director. This person will be responsible for formulating and implementing research strategies to develop applications of ubiquitin-protein fusions and ubiquitin-dependent proteolysis in the production of research and pharmaceutical products. We are looking for a highly motivated, accomplished molecular biologist/biochemist who can provide creative leadership to an initially small team of researchers, with the potential to expand into a large research group. A Ph.D. in molecular biology/biochemistry, with at least 2 years of relevant postdoctoral experience. Detailed knowledge of and firsthand research experience with the ubiquitin system is highly desirable. This is primarily a research position, business experience is an advantage, but not a necessity. This position will be available starting in early 1991, in our Cambridge, Massachusetts, laboratories.

Proteonix offers a competitive salary, benefits, and stock option program.

Applications, comprising curriculum vitae and the names of three references, should be sent to the following address by 15 July 1990:

Richard J. Massey
Proteonix Inc.
1530 East Jefferson Street
Rockville, MD 20852

Proteonix is an Equal Opportunity Employer.

**RESEARCH IMMUNOLOGIST**

A senior research position in immunology (permanent full time, GS-12/13/14/15) is available at the U.S. Department of Agriculture (USDA)-ARS Regional Poultry Research Laboratory, East Lansing, Michigan. The laboratory conducts a basic mission-oriented, multidisciplinary program focused on avian diseases, recombinant DNA vaccines, and host genes that determine disease resistance. Goal of the position is to optimize host cellular immune responses to immunogens in chickens. Salary commensurate with experience (range: $35,825 to $59,216). Experience in cellular immunology and U.S. citizenship required. Ph.D. or equivalent desirable. Send curriculum vitae with three references to: Dr. R. L. Witter, USDA-ARS Regional Poultry Research Laboratory, 3606 East Mt. Hope Road, East Lansing, MI 48823 by 15 July 1990. Applications must be marked ONG03B. An Equal Opportunity Employer.

**NUCLEIC ACID/PROTEIN INTERACTIONS**

This major Canadian biopharmaceuticals company offers outstanding opportunities for innovative and practical scientists of proven accomplishment. Positions are available for RESEARCH SCIENTISTS with several years of research experience, desirable industrial, as well as for POSTDOCTORAL FELLOWS:

- **MOLECULAR BIOLOGISTS** with experience in engineering proteins.
- **NUCLEIC ACID CHEMISTS** for the synthesis of modified oligonucleotides.

Allelix Biopharmaceuticals, located near Toronto, is financed by several leading Canadian concerns. The company offers a competitive compensation package. For consideration, please forward resumes with three references, quoting file #A9B004, to:

Mr. Walter Gagen
Allelix Biopharmaceuticals
7250 Gateway Drive
Mississauga, Ontario L4V 1P1, Canada

**SITUATIONS WANTED**

**BIOCHEMIST, Ph.D.** Protein, enzymes, monoclonal polyclonal antibody, affinity chromatography research, RIA, ELISA, hemopoesis growth factors. R&D position. Waheed, 4724 Denbigh Court, Allison Park, PA 15101.

**BIOCHEMIST/MOLECULAR BIOLOGIST, Ph.D. (1986).** Must relocate to Syracuse/Utica/Norwich, New York, area. Experienced in protein purification, plant genetic engineering. Box 52, SCIENCE.

**BIOLOGICAL OCEANOGRAPHER, M.S., with 14 years of experience. Zooplankton research, environmental consulting, teaching, administration. Seeks permanent academic/aquarium/private industry position. Box 60, SCIENCE.

**BIOLOGIST, D.Phil.** MBA (expected). Biased toward free-market environmentalism, against excessive legislation. Seeks policy/mangement/research position, industry or non-profit. Box 55, SCIENCE.

**CELLULAR IMMUNOLOGIST, Ph.D.** Experience: cytokines, marrow transplantation, adoptive cellular immunotherapy. Seeks challenging position in hospital, academia, or large company. Box 84, SCIENCE.

**ELECTRON MICROSCOPIST, Ph.D.** Integrated imaging and analysis of biological materials, project research, system development, facility management. Industrial/academic position. Box 61, SCIENCE.

**MOLECULAR BIOLOGIST, Ph.D.; 3 years of postdoctoral: in situ hybridization, cDNA cloning, bolts (S/N/W), tissue culture, fungal genetics. Industry, government, academia. Box 55, SCIENCE.

**MOLECULAR BIOLOGIST/VIROLOGIST, Ph.D.** biochemistry (1981). Experience in gene expression, recombinant DNA, PCR, immunology. Seeks research/industry position. Box 56, SCIENCE.

**NEUROETHOLOGIST.** Active research, invertebrate visual perception. Experience: 10 years of business management, 2 years of laboratory management, extensive teaching. Seeking academic position. Box 57, SCIENCE.

**NEUROSCIENTIST.** Broad biological background. Skills in electrophysiology, computer programming, random and deterministic models. Likes to teach. Washington, D.C., area preferred. Box 58, SCIENCE.

**PH.D. BIOCHEMISTRY (1978).** Teaching/research experience in enzymology, protein purification, molecular biology, immunology, HIV. Seeks industrial or research position anywhere. Box 59, SCIENCE.

**SCIENCE WRITER.** Commercially published author/teacher, Ph.D. neuroscience, seeks academic, industrial, or government writing/editing position. West Coast preferred. Dean R. Lambe, P.O. Box 14, Water- town, OH 45787. Telephone: 614-749-3476.

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Faculty Positions in Molecular Physiology and Biophysics
HS-F-0024-90-05-S

The Department of Physiology and Biophysics invites applications for two tenure track positions, preferably at the level of assistant professor but outstanding applications for associate and full professor positions will also be considered. Candidates must possess a Ph.D. in either Physiology, Biophysics, Molecular Biology, Biochemistry or in a related field. Candidates with strong credentials in membrane protein structure and function and/or the molecular mechanism of hormone action who employ electrophysiological, biophysical, and molecular biology approaches are especially encouraged to apply; however, excellent candidates in all areas of cellular and molecular physiology and biophysics will be given serious consideration. Terms are highly competitive and the positions will provide an excellent opportunity to develop a strong, independent research program in facilities which are state-of-the-art in an expanding department and research community. Submit curriculum vitae, brief statement of present and proposed research interests, representative reprints, and names of four references to:

Dr. Simon J. Pilkis, M.D., Ph.D.
Department of Physiology and Biophysics
Basic Science Tower, T-6, Room 140
Health Sciences Center
State University of New York
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