POSITIONS WANTED

Cell Biologist, Ph.D. Extensive experience in academic and biotechnology research and development in tumor cells, large scale tissue culture, lymphocyte biology, and immune-mediated tumor cell cytotoxicity. Seeking industrial research position. Box 124, SCIENCE.

Image Processing and Machine Vision. Expert in the design and construction of practical computing systems, especially devices for image analysis and machine vision. Extensive experience in medicine and biology but well knowledgeable in other areas. Have worked in both commercial and university settings. Interested in consulting on problems of both hardware and software design. S. Schehr, Ph.D., P.O. Box 109, Lake Placid, N.Y. 12946. Telephone: 518-523-9086.

Molecular Biologist, Ph.D. Research in gene regulation of oncogenes and lg genes. Broad knowledge in a variety of techniques used in cell culture, immunology, molecular genetics and transgenic mice. Seeks group leader position in academic industrial laboratory in Europe. Excellent publication record. Box 117, SCIENCE.

Toxicologist, Ph.D., Board-certified with extensive industrial and governmental experience (laboratory and non-laboratory). Seeks industrial/consulting position in the Mid-Atlantic area. Box 116, SCIENCE.

POSITIONS OPEN

ASSISTANT LABORATORY DIRECTOR: The Genetics & IVF Institute invites applications for a permanent position with reproductive cryopreservation laboratory in Houston, Texas. Applicants should have B.S. or M.S. and experience in semen or embryo cryopreservation, and/or cell culture, semen transfer, or IVF procedures. Salary commensurate with experience and education. Send resume to: Dr. Edward F. Pugger, The Genetics & IVF Institute, 3020 Javier Road, Fairfax, VA 22031. Telephone: 703-698-7355.

The USDA, Agricultural Research Service is seeking candidates for the position of AGRICULTURAL ADMINISTRATOR, GM-401-15. The successful candidate will serve as Center Director of the Red River Valley Agricultural Center, Fargo, North Dakota. Responsibilities include planning, coordinating, and evaluating research programs and providing leadership and management of programs. Applicants must meet specified education and/or experience requirements. Ph.D. degree in biological sciences, agricultural, natural resource management, or allied disciplines plus professional experience directly related to the position is desired. Knowledge of biological and physical sciences, and research methods in relation to crop production, grain processing, and genetic and biochemical processes associated with pesticide metabolism of plants and animals is desired. Knowledge of research planning and evaluation and skill in resource management desirable. Salary range $54,907 to $71,377 based on experience. For information about the position, contact: Dr. T. J. Arny, Telephone: 203-229-5557. For filing procedures, contact: Cathleen Eneton, 401-344-3188. Response deadline is 31 August 1988. Must be U.S. citizen. An Equal Opportunity Employer.

ASSISTANT PROFESSOR OF MEDICAL ONCOLOGY

The University of Texas Health Science Center at San Antonio, Department of Medicine, will fill a tenure-track position in 1988. The successful candidate will have an M.D. degree and be Board-certified or eligible in medical oncology and have a strong postdoctoral research record. Preferences given to candidates with molecular approaches to oncology problems. Applicants should submit curriculum vitae, a letter discussing current and future research plans, and three letters of reference to: Dr. William J. Wittington, Department of Medicine, Division of Oncology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78229. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA DEPARTMENT OF DERMATOLOGY

Applications are invited for a Ph.D.-level ADJUNCT ASSOCIATE PROFESSOR position in a NIH research project on sphingolipid metabolism in cultured keratinocytes. Prior experience in lipid biochemistry and metabolism essential. Salary negotiable.

Contact: Dr. Peter M. Elias, Professor and Vice-Chairman, Department of Dermatology, VAMC, 4150 Clement Street, San Francisco, CA 94112.

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

ASSISTANT PROFESSOR, BIOPHYSICAL CHEMISTRY/MEMBRANE BIOLOGY

The Department of Pathology and Laboratory Medicine at the University of Pennsylvania School of Medicine invites applications from biochemists, biophysicists, or physiologists who are interested in joining a laboratory to study membrane function. The candidate should have a background in either biophysical techniques (e.g., fluorescence, magnetic resonance) or in membrane biology. The lab is well equipped and endowed for these studies. In addition, the appointee's duties may include teaching, supervision of students and technicians, and some laboratory administration. Three letters of recommendation are required. Submit applications, including recent reprints and the names and addresses of three references to: Dr. Hagi Rottenberg, Department of Pathology and Laboratory Medicine, University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104.

DEPARTMENT OF MICROBIOLOGY

NORTH CAROLINA STATE UNIVERSITY

RALEIGH, NORTH CAROLINA

The Department of Microbiology, North Carolina State University, has available a newly created research faculty position as ASSISTANT PROFESSOR IN IMMUNOLOGY. A Ph.D. degree in immunology and postdoctoral experience are required. The position is a 12-month tenure-track appointment and includes continuing institutional research support. The successful candidate is expected to develop a vigorous research program in basic immunology and to seek graduate student and postdoctoral opportunities exist. The candidate will collaborate with other immunologists on campus and in the Research Triangle Area. The candidate is expected to interact closely with cognate groups of faculty, and to interact closely with collaborators, to develop research programs of high quality. The candidate is expected to work effectively in a collegial and collaborative environment.

Applications are invited from qualified individuals with expertise in immunology. Included in the application should be a statement of research interest, curriculum vitae, and three letters of recommendation submitted and indicate your professional association with these individuals. Application materials should be sent to:

Dr. Geraldine Luginbuhl
Immunology Search Committee
Department of Microbiology
Box 7615
North Carolina State University
Raleigh, NC 27695–7615

The closing date for applications is 30 September 1988 or until a suitable candidate is selected.

North Carolina State University is an Equal Opportunity Employer.

The Department of Neurosurgery at the University of Virginia School of Medicine announces the availability of a full-time position as ASSISTANT PROFESSOR OF NEUROSURGERY. The candidate must be Board-certified or Board-eligible with primary interest in stereotactic and epilepsy surgery and able to collaborate with a functional neurosurgical group. Applicants should include curriculum vitae and bibliography to: John A. Jane, M.D., Ph.D., Department of Neurosurgery, University of Virginia, School of Medicine, Box 212, Charlottesville, VA 22908. The University of Virginia is an Affirmative Action/Equal Opportunity Employer.
Tenure Track Staff Positions at the Biological ResponseModifiers Program, NCI

The Clinical Research Branch, Biological ResponseModifiers Program, Division of Cancer Treatment, the National Cancer Institute, National Institutes of Health, Public Health Service, is accepting applications for two staff positions. Positions are available to physicians who are either Board eligible or Board certified in medical oncology.

The incumbent will be responsible for primary patient care and the design and conduct of clinical trials utilizing biological response modifiers. Emphasis is also placed on continuity of patient care, principles of patient management, and correlation of clinical response with changes in immunologic parameters.

Staff Fellows are eligible for benefits including health insurance, life insurance options, vacation, and sick leave. In addition, travel expenses for the Fellow to his duty station are available.

For further information and application procedures, please contact:

Ronald G. Steis, M.D.
Medical Pavilion
Frederick Memorial Hospital
235 Park Avenue
Frederick, Maryland 21701
(301) 698-5929

An NIH Associate Training Program
NIH is an Equal Opportunity Employer

Staff Scientist

Tumor/Cell Biology

Triton Biosciences Inc. has an opening for a Staff Scientist to take charge of our tumor/cell biology group. This group is engaged in a variety of projects in the areas of tumor biology, growth factors, growth factor receptors, lymphokines, and oncogenes.

We desire an individual with an established record of research in one or more of the above fields. It is anticipated that the successful candidate will have 5-8 years experience beyond the post-doctoral level and preference will be given to those having industrial experience, including responsibility for a research group.

Triton Biosciences Inc., is an emerging, fully integrated pharmaceutical and diagnostics company located in the San Francisco Bay Area. We offer competitive salaries and benefits including a full relocation package. For consideration, please send your C.V. and names of three references to: Triton Biosciences Inc., Box JJM, 1501 Harbor Bay Parkway, Alameda, CA 94501. Triton is an Equal Opportunity Employer.

Triton Biosciences Inc.

FACULTY APPOINTMENT
GASTROINTESTINAL RESEARCH

Major university/medical center seeks and individual experienced in G.I. physiology/pharmacology/arachidonic acid metabolism to work with the Chairman of the Department of Medicine. Candidate must be capable of independent work. M.D. or Ph.D. required. This position will provide a faculty appointment in the Department of Medicine plus a competitive salary and fringe benefits. Send resumes to: Donald E. Wilson, M.D., Chairman, Department of Medicine, SUNY Health Science Wilson Center at Brooklyn, 450 Clarkson Avenue, Box #50, Brooklyn, NY 11203.

State University of New York HEALTH SCIENCE CENTER AT BROOKLYN

EO/AA Employer  DMC #C-0197

Monsanto Japan

The Asia-Pacific Research Center for Monsanto Agricultural Company is seeking a Research Biologist. Applicants with a Ph.D. are preferred although M.S. applicants with exceptional experience will be seriously considered.

Qualified applicants must have 5-10 years experience and possess a background in plant science (plant pathology, crop science, plant physiology or agronomy) research. Research responsibilities are product oriented and will include all aspects of the discovery, advanced evaluation and initial development of crop protection products. The successful candidate will work closely with research colleagues in the U.S. and Europe and with marketing and product development in the Asia-Pacific region. Applicants should have strong technical and communication skills, the ability to work within a product oriented multidisciplinary team, and must be fluent in verbal and written Japanese. Written and verbal English proficiency is required.

The Asia-Pacific Research Center was opened in 1984 and is located about 60 km northeast of Tokyo and about 20 km southeast of Tsukuba Science City. A group of 22 permanent staff does crop protection product discovery and product support research in biology, formulation chemistry, and environmental chemistry. For confidential consideration, send resume and cover letter to: Mr. H. Nakamichi, Monsanto Japan Ltd., 520 Kokuai Bldg., 1-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100 Japan. Equal Opportunity Employer.
POSITIONS OPEN

ASSISTANT PROFESSOR, POSITIONS
DIVISION OF PHYSIOLOGY
DEPARTMENT OF CELI BIOLOGY
DUKE UNIVERSITY MEDICAL CENTER

Two tenure-track appointments are available to candidates with a Ph.D. and/or M.D. who have postdoctoral experience and are strongly committed to a program in the areas of systems and integrative physiology. Preference will be given to candidates whose research will complement existing programs in cell physiology and biophysics. Teaching responsibilities will require participation in the medical and graduate school courses in areas that relate to integrative respiratory, cardiovascular and/or renal physiology. Please send curriculum vitae, statement of research plan, teaching experience and the names of at least three references to: Physiology Search Committee, Duke University Medical Center, Box 35709-E, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR
TOXICOLOGY

The Toxicology Program at North Carolina State University invites applications for a 12-month tenure-track position that is available to investigate the mechanisms of xenobiotic toxicity utilizing a molecular/cellular approach. The successful candidate will have a Ph.D. in toxicology, related cellular toxicology and postdoctoral experience. The applicant will be expected to develop an independent, competitively funded research program in molecular and cellular toxicology and participate in the graduate student education. Submit curriculum vitae, pertinent reprints, a statement of research interests, and the names of at least three references by 15 September 1988 to: Dr. Ernest Hodgson, Toxicology Program, North Carolina State University, Campus Box 7633, Raleigh, NC 27695-7633. North Carolina State University is an Equal Opportunity Employer and operates under Affirmative Action Policy. The University strongly encourages all qualified applicants.

Applications are invited from suitable qualified individuals for ASSISTANT PROFESSORS OF ANIMAL SCIENCE, and AGRICULTURAL ECONOMICS. Tenure-track 12-month employment (initially a 3-year contract). Major activity is research. Includes some teaching and extension work in both positions. Minimum qualifications: Ph.D. degree in animal science and agricultural economics respectively. Send curriculum vitae, and request three references to: Mr. Jose T. Barcina, Acting Dean, College of Agriculture and Life Sciences, University of Guam, Mangilao, Guam 96923.

ASSISTANT RESEARCH PROFESSOR. The Department of Biochemistry is seeking a person with significant experience in the characterization of proteins and the investigation of protein-protein and protein-nucleic acid interactions by various methods, including analytical ultracentrifugation, viscosity, light scattering and uv and fluorescence spectrophotometry. A Ph.D. in chemistry or biochemistry and postdoctoral experience for 3 years or more preferred. Experience with milk proteins is a definite plus. Salary range $32,000 to $40,000 per year. Only U.S. citizens may apply. Applicants should provide curriculum vitae and names of three references by 19 August 1988 to: Dr. Charles N. Hovey, Department of Biochemistry, School of Medicine, Loma Linda University, Loma Linda, CA 92350.

Fels Institute of Cancer Research and Molecular Biology is looking for outstanding candidates at the levels of ASSOCIATE and ASSISTANT PROFESSOR, in the field of human retrovirology. The candidate should have an outstanding track record in molecular studies of human retroviruses and is expected to develop strong independent research programs. The applicants should submit curriculum vitae and a brief description of research interests to: Fels Institute of Cancer Research and Molecular Biology, Temple University School of Medicine, Medical Research Building, North Broad Street, Philadelphia, PA 19140, An Equal Opportunity/Affirmative Action Employer.

Research Opportunities at Pfizer

Pfizer, a U.S.-based multinational pharmaceutical company, is seeking qualified scientists to join our Central Research facility in Groton, Connecticut. Immediate openings are available in the following disciplines:

Molecular Neurobiology

Participate in multidisciplinary approaches to therapy for CNS disorders and neurodegenerative diseases in our Molecular Neurobiology group. You should possess an MS or BS degree in Biochemistry, Molecular Biology or a related field. You should also have laboratory experience in two or more of the following areas: Receptor binding; Enzymatic assays; ELISA; Molecular biology; Tissue culture.

Molecular Genetics

Apply your strong background and skills in molecular biology to exploratory biomedical research in our Molecular Genetics research group. You should possess an MS or BS degree with significant laboratory research experience. You should also be skilled in basic recombinant DNA techniques and have additional experience in one or all of the following: Mammalian cell culture; mRNA isolation; Characterization; Eu-caryotic transcription regulation methodology; Protein purification.

Pfizer offers a stimulating scientific research environment with the opportunity to interact with scientists from several disciplines. In addition, Pfizer has a competitive compensation/benefit package along with relocation assistance to this southeastern Connecticut shoreline community. Please send a resume indicating position of interest, a description of your research experience, and names of three references to: Mrs. Lorraine Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Senior Investigator, Medicinal Chemistry

A health care company that markets prescription and proprietary products for human and animal health care has an opening for a Senior Investigator in its Department of Medicinal Chemistry at its research and development facility in King of Prussia, Pennsylvania.

The principal duties of the position include (1) conceiving, planning and executing synthetic/organic medicinal chemical research aimed at the discovery of inhibitors of enzymes involved in the cholesterol biosynthesis, proestrogenic growth factors and trophic factors of hormonally supported tumors; (ii) utilizing molecular modeling techniques, asymmetric synthesis, photochemistry and manipulation of aliphatic and alicyclic and fluorine containing molecules to pursue such research; (iii) collaborating with other research groups in the development of biological or biochemical assays to evaluate the potential of the synthesized compounds as novel drugs; (iv) directing a team of Senior Chemists in carrying out the requisite research; (v) compiling and evaluating the experimental data generated and reporting on research findings including, where appropriate, in national and international professional journals and (vi) evaluating the work of Senior Chemists who are already members of the research team and hiring of additional personnel to serve as team members.

The minimum requirements for the position are a Ph.D. degree in Chemistry and seven years experience in synthetic/organic medicinal chemical research designing and synthesizing complex molecules such as enzyme inhibitors that serve as new drugs to lower serum cholesterol levels and to treat benign prostatic hypertrophy and breast cancer, including three years experience in molecular manipulation of phosphorous and fluorine containing molecules.

Salary of $56,937 with liberal employee benefits. Qualified applicants should submit resume and curriculum vitae to Philadelphia Job Bank, 444 N. 3rd Street, Philadelphia, PA 19123 and refer to Order Number 4192904, Equal Opportunity Employer, M/F/H/V.
Postdoctoral Research Appointment

The Biological, Environmental, and Medical Research Division has a postdoctoral position available in the area of biochemical/molecular toxicology. The focus of the research will be to examine the molecular basis for cadmium-induced bone loss that has been identified in both in vitro and in vivo systems that are relevant to studying mechanisms of postmenopausal osteoporosis. Candidates should have experience in biochemistry/physiology, preferably related to this research. Competitive salary is commensurate with experience. For technical information, contact Dr. Maryka H. Bhattacharyya, (312) 972-3923. Applications should include curriculum vitae and the names of three references. They should be forwarded to:

Rosalie L. Bottino
Employment and Placement
Box D-BEM-POSTDOC-55
Argonne National Laboratory
9700 South Cass Avenue
Argonne, Illinois 60439-4844.

Argonne is an affirmative action/equal opportunity employer.

U.S. Department of Energy
Fossil Energy
Postgraduate Research Program

METC conducts research in fossil energy conversion and utilization. Several postgraduate positions available in systems analysis of fossil energy technologies, applied sciences research, engineering R&D, and project management.

- Graduate degree within last 3 years
- Science or engineering background
- Stipend based on degree and research area
- U.S. citizens and PRAs eligible
- Information and applications

Fossil Energy Postgraduate Program
University Programs Division
Oak Ridge Associated Universities
Research P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-3456

Research Assistants/Associates

Genentech, Inc., a leader in the field of biotechnology, has a number of opportunities available for Research Assistants/Associates. Working on programs to discover new human pharmaceuticals, these positions offer a challenging opportunity to be a key team participant.

Typical requirements include a BS/MS in Biochemistry, Molecular Biology, or closely related scientific field, and a minimum of 2 years' experience in one or more of the following: molecular biology techniques, assay development, biochemical techniques, tissue culture techniques, protein sequencing and characterization, and hybridoma techniques.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume to Yvonne Davino, Human Resources Department XX, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.
POSI TIONS OPEN

BIOCHEMIST. Research scientist position in a dynamic biotechnology company at its research facility in Rochester Hills, Michigan. Ph.D. in biochemistry and experience in protein purification and mammalian cell culture are required. Unique opportunities for professional growth, high salaries, and benefits. Further information call 313-852-8815 or send a resume and names of three references to: Director of Research, Oxford Biomedical Research, Inc., 1858 Starr Batt Drive, Rochester Hills, MI 48309.

BIOCHEMISTRY FACULTY POSITION UNIVERSITY OF WISCONSIN—MADISON

The Biochemistry Department, University of Wisconsin-Madison invites applications for a tenure-track position at the assistant professor level. We are particularly interested in applications from individuals whose research interests are in enzymology, bioorganic chemistry, the chemistry of biological membranes, and membrane proteins. University of Wisconsin-Madison is an AA/EOE employer. Women and minorities are encouraged to apply. For further information call 608-262-3930 or visit our website at http://www.biochem.wisc.edu.

CANCER RESEARCH TECHNOLOGIST. Forty hour per week salary. To process tissues for histological, histochemical, and immunohistochemical studies; perform electron microscopy and high resolution electron microscopic autoradiography. Chemical and biological analyses to define cancer problems in biochemistry or molecular biology. Potential areas include enzymology, bioorganic chemistry, the chemistry of biological membranes, and membrane proteins. University of Wisconsin-Madison is an AA/EOE employer. Women and minorities are encouraged to apply. For further information call 608-262-3930 or visit our website at http://www.biochem.wisc.edu.

CHAIRPERSON, DEPARTMENT OF ANATOMY SCHOOL OF MEDICINE AND HEALTH SCIENCES THE GEORGE WASHINGTON UNIVERSITY

The George Washington University School of Medicine and Health Sciences in Washington, D.C. invites applications/nominations for the position of Chairperson of its Department of Anatomy which will be vacant at the end of the current academic year. The successful candidate will possess an active research program and an outstanding record of scholarly achievement and teaching. We seek applicants who have demonstrated the leadership skills necessary to develop a comprehensive program for the study of the body systems, to recruit and retain research faculty, and to maintain a tradition of excellence in the multifaceted fields of modern anatomy. Departments with particular emphasis on the neurosciences. The Department is responsible for teaching medical students, residents, gradu- ate students, and continuing medical education. The Department has an active research program in the neurosciences. The successful candidate will possess an active research program and an outstanding record of scholarly achievement and teaching. We seek applicants who have demonstrated the leadership skills necessary to develop a comprehensive program for the study of the body systems, to recruit and retain research faculty, and to maintain a tradition of excellence in the multifaceted fields of modern anatomy.

IMMUNOMEDICS DIRECTOR, IMMUNOCHEMISTRY

Immunomedics, the pioneer Company in the use of antibodies for cancer imaging and therapy, is expanding its Immunohistology division. Reporting to the Group Director of Immunology and Chemistry, responsibility will be to direct a team of scientists developing reagents for clinical trials. Applicants should have experience in the purification and characterization of monoclonal antibodies/fragments under GMP for in vivo use. Expertise in writing specifications for IND/PAF FDA submissions preferred. We offer an attractive employment package including paid health/dental, a 401K retirement plan, and the opportunity for stock and option rewards. Please send curriculum vitae, salary requirements and career objectives to: Personnel Director Immunomedics, Inc. 150 Mt. Bethel Road CN #4918 Warren, NJ 07060

DEPARTMENT OF GASTROENTEROLOGY AND HEPATOLOGY—The Department of Medicine at Jefferson Medical College, Philadelphia, PA 19107 offers a new position for an experienced gastroenterologist. Responsibility for teaching, and clinical programs at an academic institution. Applications and nominations with a complete curriculum vitae should be sent to: Emanuel Rubin, M.D., Search Committee for Pharmacology, Jefferson Medical College, 1020 Locust Street, Philadelphia, PA 19107. As an Affirmative Action/Equal Opportunity Employer.

DIRECTOR OF GASTROENTEROLOGY AND HEPATOLOGY—The Department of Medicine of the Jefferson Medical College, Philadelphia, PA 19107 invites applications for the Division of Gastroenterology and Hepatology. Responsibility for research, teaching, and clinical programs at an academic institution. Applications and nominations with a complete curriculum vitae should be sent to: Willis C. Maddrey, M.D., Chairman, Department of Medicine, Jefferson Medical College, Thomas Jefferson University, 1020 Locust Street, Philadelphia, PA 19107. As an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF PATHOLOGY. The Department of Pathology at the University of California, Los Angeles School of Medicine invites applications for an independent research position beginning on or before 1 January 1989 and clinical pathology beginning January 1989. Research specialties include hematopathology and medical microbiology. Starting salary will be commensurate with experience. Applications should be sent to: Dr. J. R. Jackson, Chairman, Department of Pathology, UCLA School of Medicine, Los Angeles, CA 90024-1732. As an Equal Opportunity/Affirmative Action Employer.

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POSITIONS OPEN

DOCTORATES, any field considered. Mature attitude, excellent teaching ability, congenial personality, and professional presence necessary. We train you for intensive laboratory instruction of surgeons. Permanent instruction sites in New York City, West Palm Beach, or Chicago (Arlington Heights). Some travel required. Not a sales position. Salary: $40,000. Write for application information to: Director, Midas Rex Institute, 2929 Race Street, Fort Worth, TX 76111. New applicants only, please.

ENCLOSURE REPRODUCTIVE PHYSIOLOGIST. Postdoctoral research associate for research on bovine oocyte development and cloning by nuclear transfer. Need Ph.D. and experience with embryo culture and development or micromanipulation. Salary $20,000 to $20,000, depending upon experience. Apply to: Dr. N. L. First, University of Wisconsin, 1675 Observatory Drive, Madison, WI 53706. Telephone: 608-263-4306.

FACULTY POSITION HEMOTROPIC DISEASES

The Department of Veterinary Pathobiology, College of Veterinary Medicine, University of Illinois is committed to strengthening its research and teaching program in hemotropic diseases currently led by Professor Miodrag Ristic. Dr. Ristic's impending retirement creates a vacancy for a tenure-track faculty position. Applicants should exhibit a strong commitment to hemotropic disease research, especially biochemical and immunological aspects of productive immunity, and have familiarity with the applications of modern techniques in parasitology, epidemiology, pathology and molecular biology. Candidates should exhibit evidence of administrative and organizational skills and have had recent experience in on-campus programs in hemotropic diseases. Applicants should have a Ph.D. and/or clinical professional degree, e.g., D.V.M. or M.D., and be eligible to work in the U.S. Salary and rank are commensurate with training and experience. To receive maximum consideration applications should be received by 15 October 1988. The position will be filled as soon as possible thereafter. Submit applications and the names of three references to: Dr. Ronald D. Smith, Chairman, Hemotropic Disease Search Committee, College of Veterinary Medicine, University of Illinois, 2001 South Lincoln Street, Urbana, IL 61801. Telephone: 217-333-3290.

FOREST TREE MOLECULAR BIOLOGIST

Weavaco Corporation is seeking a scientist to fill a molecular biology position in our Forest Research Organization. Building upon a strong conventional tree-breeding program, we are expanding our genetic program into molecular biology and plant transformation technology.

The duties of our molecular biology position are to explore the use of molecular tools to advance our conventional breeding program, especially RFLP's to fingerprint germplasm and to study the inheritance of quantitative traits in trees. Necessary experience include a Ph.D. or postdoctoral experience in plant molecular biology or related fields, with a strong background in training and experience in molecular cloning, RFLP techniques, and plant transformation technology; a history of working in a research team environment; and the ability to work independently. The position will be located at our Forest Research Headquarters in Summerville, South Carolina. Summerville lies 20 miles northwest of Charleston. For consideration, please send your resume, college transcripts, and three letters of recommendation before 16 September 1988 to: Mr. Ted Bush, Personnel Department, Weavaco Corporation, P.O. Box 1950, Summerville, SC 29484. Equal Opportunity Employer M/F.

SAFETY ASSESSMENT/TOXICOLOGY INFORMATION SPECIALIST

The Parke-Davis, a Division of Warner-Lambert Co., has an immediate opening in its Pathology and Experimental Toxicology Department for an experienced toxicologist to participate in the compilation of verbal and written communications associated with department projects. The summarization of study results and presentation of findings in safety assessments is a major responsibility of this position. This requires the collation of published data pertinent to subject compounds and therapeutic categories. This individual will also serve as a participant in departmental associated research which includes serving as a study director for in-house studies and as a study monitor for contracted studies. The design of studies to address unforeseen circumstances is required.

Requirements for this position include a Ph.D. in Toxicology or related discipline with several years of experience; effective communication skills; a background in toxicology research; experience with GLP requirements; and effective information gathering skills.

This position is located at our research facilities in Ann Arbor, Michigan, adjacent to the University of Michigan campus. The successful candidate will participate in dynamic drug discovery and development teams, and enjoy an excellent salary, benefits, professional development and living and working environment.

Qualified candidates send resume, salary requirements and reference list in confidence to: Ms. M. Wolin, Parke-Davis, 2800 Plymouth Road, Ann Arbor, MI 48105.

"EQUAL OPPORTUNITY IN ACTION"

PARK-E-DAVIS DIVISION OF WARNER-LAMBERT COMPANY

Senior Investigator, Immunology

A health care company that markets prescription and proprietary products for human and animal health care has an opening for a Senior Investigator, Immunology, in its Department of Immunology at its research and development facility in King of Prussia, Pennsylvania.

The principal duties of the position include (i) planning and designing experiments in mast cell immunology and biochemistry aimed at defining new molecular targets and mechanisms for the pharmacological manipulation of mast cell responses, (ii) supervising such experiments including performing non-routine, specialized work, (iii) investigating, adapting, developing and implementing appropriate in vitro and in vivo methodologies and mechanisms for the discovery and development of novel anti-allergic agents which have a high specificity towards inhibiting human mast cell activation and degranulation and (iv) coordinating, evaluating and drawing conclusions from experimental data and recommending curtailment or expansion of current projects and programs as well as the initiation of new projects and programs.

The minimum requirements for the position are a Ph.D. degree in Chemistry/Biology and six (6) years experience (i) in mast cell biochemistry and immunology including second messenger pathways of mast cell activation/ inhibition, mast cell growth factors and the development of mast cell lines; (ii) in immunopharmacology of mast cells and mediators of inflammation and models of allergic and inflammatory diseases and (iii) in protein purification including HPLC and FPLC methods.

Salary of $45,600 with liberal employee benefits. Qualified applicants should submit resume or curriculum vitae to Philadelphia Job Bank, 444 N. 3rd Street, Philadelphia, PA 19123 and refer to Order Number 4192958. Equal Opportunity Employer, M/F/H/V.
**RESEARCH ASSOCIATES IN CELL BIOLOGY**

*Amgen* is a dynamic and growing organization that is a recognized leader in advanced biotechnology. Our leadership in the development of Erythropoietin has placed us firmly at the forefront of the industry. Our continued growth has created immediate opportunities for Research Associates in Cell Biology.

Qualified applicants should have a BS or MS in Cell Biology, or a related discipline, and 2-4 years of experience in mammalian cell culture. Responsibilities for these positions will include maintaining mammalian cell lines as well as performing a variety of IN VITRO bio-assays to support on-going exploratory research projects. Some familiarity with molecular biological techniques is highly desirable.

*Amgen* offers a stimulating and challenging research environment as well as an attractive location one hour northwest of Los Angeles. *Amgen* also offers an excellent compensation and benefits package. Qualified applicants should send a resume and a list of 3 references, in confidence, to:

Recruitment, Dept. #29
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Equal Opportunity Employer

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**PILOT PLANT MANAGER**

If you’re interested in a career with a leading health care company, why not begin your search with a company respected the world-over for its profound commitment to care, to quality, and to innovation? Baxter Healthcare Corporation has demonstrated that commitment for over 30 years.

Currently, our Baxter Hyland Division is seeking a qualified individual to support manufacturing by managing the planning and implementation of programs to improve quality and yield of therapeutic proteins; coordinate and implement projects from inception to completion; conduct feasibility studies; organize scale-up activities; and provide support for transfer of technology into production. A technical degree or equivalent experience (Ph.D. in BioChemistry or an M.S. with 7+ years protein purification experience desirable); strong supervisory, communication, and project organization experience and knowledge of manufacturing scale-up techniques for protein purification by methods such as chromatography and ultra-filtration required.

Baxter offers a fast-paced, stimulating work environment, attractive benefit and compensation plans, and the opportunity to work for a world-class leader in the health care industry. For consideration, please send a current resume with salary history to: Ms. Vickie Thrasher, Baxter Hyland Division, 4501 W. Colorado Blvd., Los Angeles, CA 90038. PRINCIPALS ONLY. PLEASE. Equal Opportunity Employer.

Hyland Division

*Baxter*

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**NUCLEIC ACID CHEMIST**

Ph.D. Level

Lifecodes Corp., a leading company in the use of DNA probes for human genetic diagnostics, is undergoing expansion and is committed to building a strong and innovative Department of Nucleic Acid Chemistry. To that end we are seeking a nucleic acid chemist at the Ph.D. level. Candidates would be expected to have a thorough understanding in the basics of organic chemistry, and research experience in either oligonucleotide or nucleic acid chemistry would be a definite asset.

Lifecodes, a wholly-owned subsidiary of Quantum Chemical Corp., is located in attractive, modern facilities just 30 minutes from New York City in Westchester County.

For the right individual we offer an extremely attractive salary/benefits package, including a complete medical plan, 401-K savings and pension plans, and a stock bonus plan.

If interested, please send your curriculum vitae with the names and telephone numbers of at least two references to:

NUCLEIC ACID CHEMISTRY DEPARTMENT
LIFECODES CORPORATION
Saw Mill River Road
Valhalla, NY 10595

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**TOXICOLOGIST**

You would be in our expanding Pharmaceutical Research & Development Division responsible for designing studies and protocols, supervising implementation, interpreting results, and writing and presenting reports of Toxicology studies in chronic and reproductive areas. The position requires a B.S. degree in a Biological Science plus several years of Toxicology or in-vivo pharmacology experience. A master's degree in Toxicology is highly desirable and will substitute for the required experience.

We are developing a world class Pharmaceutical Research organization and you can be part of this organization. We encourage and reward individual contribution. This unit of Research is located in Evansville, Indiana, a community of attractive residential areas, outstanding educational and recreational facilities and much more. Our salaries, benefits, and moving allowances are superb. Please send resume in confidence to:

BRISTOL-MYERS
Research Employment Department 6L82
2404 Pennsylvania Avenue
Evansville, IN 47721

An Equal Opportunity Employer MFHHV
MOLECULAR BIOLOGIST/GENETICIST
(Halifax, Nova Scotia)

The Atlantic Research Laboratory of the National Research Council of Canada requires a Molecular Biologist/Geneticist to work in its Marine Biosciences Section.

The incumbent will participate in the planning, development and implementation of molecular biology studies on marine algae, with a long-term view to future biotechnology applications; conduct independent research of high calibre; collaborate with colleagues at the Atlantic Research Laboratory and other research institutions; and contribute to the supervision of technicians and post-doctoral fellows.

Applicants will have a Ph.D. in molecular genetics or an appropriate area of biochemistry, with at least 2 years of post-doctoral laboratory experience in molecular biology. Candidates must be dynamic individuals able to contribute scientific and intellectual leadership in molecular biology research. They must also be able to perform all fundamental molecular genetic techniques such as DNA isolation, restriction mapping, construction of plasmid and phage libraries, construction and use of probes and vectors, and nucleic acid transfer and blotting techniques using radioisotopes. Computers experience as related to accessing data bases for sequence comparisons and previous research experience with algae would be important assets.

Send your curriculum vitae, transcripts, and three letters of reference before 16 September 1988 to: The Personnel Office, Atlantic Research Laboratory, National Research Council of Canada, 1411 Oxford Street, Halifax N.S., Canada B3H 3Z1.

Please quote reference AR-87-02 (SC).
FACULTY POSITIONS, NEPHROLOGY. The Section of Nephrology at the Yale University School of Medicine seeks individuals to establish independent research programs utilizing cell or molecular biologic approaches to study issues of relevance to renal physiologic or pathology. Applicants should have appropriate clinical training in internal medicine and nephrology to serve as teaching attendings. Positions will be based at the Yale School of Medicine or the West Haven V.A. Hospital. Tentative starting date, 1 July 1989, with initial term or tenure appointment as assistant professor, associate professor, or professor depending on qualifications. Women and members of minority groups are particularly encouraged to apply. Applicants should send curriculum vitae before 1 October 1988 to: Peter S. Aronson, M.D., Section of Nephrology, Department of Internal Medicine, Yale University School of Medicine, Box 3333, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.

INSTRUCTOR (Western Medicine) for a university Oriental medicine/acupuncture program. Teach under-graduate and graduate courses including courses in pharmacology, western medical diagnosis, Western medical terminology, histology, endocrinology, neuroanatomy, physiology, psychiatry, pathology, clinical medicine, clinical sciences including obstetrics/gynecology, urology, radiology, and infectious diseases, with requisite knowledge thereof. Prepare and deliver lectures/demonstrations to students, stimulate discussion, compile, administer, and grade exams, direct research. Undergraduate postgraduate work/training in California and quality. Salary: $35,000 per annum. Apply: Department of Medical Quality. Monday through Friday: 8:30 a.m. to 5:00 p.m. (Teaching: 6:00 a.m. to 10:00 p.m.; administrative work at other times.) Salary: $35,000 per annum. Job site and interview: Garden Grove, California.

Send this ad and a resume or letter stating your qualifications to: Job NO #297, P.O. Box 9560, Sacramento, CA 95823-0956 not later than 14 August 1988.

MACROMOLECULAR STRUCTURE

The Agouron Institute, a multidisciplinary non-profit research organization located in La Jolla, California, is seeking a SCIENTIST to pursue independent research in the general area of macromolecular structure-function analysis. The applicant should demonstrate a strong research record in either protein x-ray crystallography or biochemical chemistry and have a broad perspective of the biological relevance of this research. The Agouron offers ample opportunity for, and encourages, interdisciplinary research in fields of x-ray crystallography, computational chemistry, and molecular biology and is equipped with state-of-the-art instrumentation and facilities. Please send curriculum vitae including the names of three referees to:

Search Committee
Agouron Institute
505 Coast Boulevard
La Jolla, CA 92037

The Department of Molecular Genetics of the SmithKline Animal Health Products is seeking a Postdoctoral Scientist to perform investigative studies on the Reagent Specific Immunogenic Response to Rabies Virus. The specific area of research will focus on the recombinant DNA expression of rabies proteins and the differential immune response to those proteins. Applicants will be expected to publish their findings in scientific journals and make presentations at both local and national meetings.

Candidates for the position should have a Ph.D. in Immunology/Molecular Virology or a related discipline. Experience in the cell-mediated immune responses to protein antigens is desirable.

The appointment is full time for a period of two years and is part of a research agreement between SmithKline Beckman Animal Health Products and the Centers for Disease Control (CDC) in Atlanta, GA. The successful candidate will work within the Rabies Laboratory of the Division of professor Diseases at the CDC, in Atlanta, GA. Applicants should send curriculum vitae, including relevant publications and names of three references to: Dr. William J. Bellini, Mail Stop 6-13, Center for Disease Control, CID/DVD/VRZB, 1600 Cliff-

Salary:

POSITIONS OPEN

UNIVERSITY OF SOUTHERN CALIFORNIA

FACULTY POSITION

Applications are invited for a tenure-track assistant/associate professor position at the School of Pharmacy, Division of Pharmacognosy. Outstanding candidates with research interests in the mechanisms or kinetics of drug metabolism, in vitro or in vivo are sought to join our strong multidisciplinary programs in drug targeting, pharmacokinetics, and cancer pharmacology. Participation in new teaching in graduate and professional programs is required. Please submit curriculum vitae, selected reprints, statement of research objectives and the names of three references by 30 September 1988 to: Vincent H. L. Lee, Ph.D., University of Southern California, John Stauffer Pharmaceutical Sciences Center, 1985 Zonal Avenue, Los Angeles, CA 90033-1086. Equal Opportunity Employer/M/F/H.

FACULTY POSITION IN MOLECULAR BIOLOGY

Department of Dermatology
University of Michigan

Faculty position available for scientist with experience in molecular biology of growth differentiation and immune regulation. Candidate will be expected to institute an independent research program emphasizing molecular biological techniques and to collaborate with current faculty on the regulation of growth and differentiation of human epidermis. Current faculty research interests include: regulation of cytokine and growth factor gene expression, biochemistry of signal transduction, arachidonic acid metabolism, and immunodermatology. Research program should be compatible with studies on inflammatory hyperplastic skin diseases such as psoriasis. Applicants should send curriculum vitae, bibliography and statement of research interests and names of three references to:

Professor John J. Voorhees, Chairman
Department of Dermatology
University of Michigan Medical Center
1910 Taubman Health Care Center
Box 0314, Ann Arbor, MI 48109-0314

RESEARCH FELLOWSHIPS 1989

The Natural Sciences and Engineering Research Council of Canada (NSERC) offers research fellowships to expand career opportunities for a select number of promising researchers in the natural sciences and engineering. These awards are tenable in universities or industries in Canada. Eligibility: Canadian citizens or permanent residents of Canada holding a doctorate in science or engineering, preferably with post-doctoral research experience of not more than five years. Nature of Appointment: Fellows will be employed by the university or industrial firm for the duration of the award and will be engaged in research or development. Duration of Appointment: a) University Research Fellowships: Up to five years based on satisfactory performance; possibility of renewal for a second 5-year term. b) Industrial Research Fellowships: Up to two years based on satisfactory performance. Remuneration: a) University Research Fellowships: Salary is determined by the university; NSERC will reimburse the university up to $30,000 per annum towards the cost of each fellow's salary. Fellows will receive a three-year research grant. b) Industrial Research Fellowships: Salary is determined by the industrial firm; NSERC will reimburse the firm $25,000 per annum towards the fellow's salary. Application Procedures: Contact the Canadian university or industrial firm of your choice to carry out appropriate negotiations concerning research plans, terms and conditions of appointment, salary, etc. Nominations must be submitted to NSERC by universities or industrial firms, as the case may be. Applications submitted directly to NSERC by candidates cannot be accepted.

Date of Submission: a) 1 November 1988 for University Research Fellowships. b) anytime for Industrial Research Fellowships.

For more information, contact the:
Research Fellowships Officer
Natural Sciences and Engineering Research Council
200 Kent Street
Ottawa, Ontario
Canada
K1A 1H5
Telephone: (613) 996-2000
POST-DOCTORAL POSITIONS

One position is available for study of the enzymes that participate in the metabolism of xenobiotics, including drugs. Interest is presently directed at hydrolytic enzymes that fall into the category of enzymes of detoxication. Send Curriculum Vitae to William B. Jakoby.

A position is available for study of the biochemistry of inherited disorders, e.g., the lysosomal storage diseases, utilizing techniques of molecular biology and protein chemistry. Facility with these methods is favored but is not essential. Send Curriculum Vitae to Rachel Myerowitz.

Both can be reached at:

National Institutes of Health
Laboratory of Biochemistry and Metabolism, NIDDK
Building 10, Room 9N-114
9000 Rockville Pike
Bethesda, Maryland 20892

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POST DOCTORAL FELLOW/RESEARCH ASSOCIATE

The Hospital for Sick Children, one of the world's leading paediatric research and care centres, is seeking a recent Ph.D. graduate with an in-depth background in protein chemistry. You have a demonstrated working knowledge of enzyme purification, preparation and use of mono and poly-clonal antibodies. You should also have had experience in molecular biology.

Remuneration will reflect your training and level of expertise. Please send your curriculum vitae, quoting File #C072 and including 3 letters of recommendation, no later than August 29, 1988, to: Ms. Celeste D. Walton-Ruzic, Recruitment Officer, Department of Human Resources.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

555 University Avenue
Toronto, Ontario M5G 1X8

THE HOSPITAL FOR SICK CHILDREN

Principal Scientist/Group Leader

Contribute to some of the most advanced projects in pharmacology at Schering-Plough, a worldwide leader in the research, manufacture and marketing of pharmaceutical and personal care products.

This is your opportunity to expand your expertise with a team of leading scientists. Your background should include methods development for complex dissolution assays and familiarity with proteins. A PhD in Analytical Chemistry/Pharmaceutical Science with 3 years' relevant work experience or an MS with 10 years' relevant work experience required. Good oral and written skills along with previous management experience are necessary.

We offer a very competitive salary and benefits. For prompt confidential consideration, send your resume with salary history to: Ms. I. Brenneman, Box 87-52, Schering-Plough Corporation, E-17, K-6-1, 2000 Galloping Hill Road, Kenilworth, NJ 07033. We are an equal opportunity employer.
PHYSIOLOGIST/CCELL PHYSIOLOGIST

For multiple positions in the Department of Biological Sciences at Purdue University, the following positions are available immediately:

PHYSIOLOGIST

Ph.D., M.S., and B.S. ScienTs immunochemistry

To: H. K. Kibler, Associate Director, Division of Microbiology, Chemistry, and Nanotechnology, Room 357-5, Barlow Neurological Institute, 350 West Washington Street, Phoenix, AZ 85033.

Equal Opportunity Employer M.F.

immunocompound, the pioneer company in the use of antibodies for cancer imaging and therapy, is expanding its product/process development department.

Bacteriology and pathology, responsibility will be for development of reagents for clinical trials.

Candidates should have experience in the purification and characterization of monoclonal antibodies and fragments, or in the conjugation of monoclonal antibodies to chelates/polymer/enzymes.

We offer an attractive employment package including paid health/dental, a 401k retirement plan, and the opportunity for stock and stock option merit rewards.

Please send curriculum vitae, salary requirements, and career objectives to:

Personnel Director

Immunocompound, Inc.
1505 W. Bethel Road
CN #4918

Equal Opportunity Employer M.F.

University of Michigan: Unexpected immediate opportunity for POSTDOCTORAL FELLOW with synthetic or enzymatic background for radio-labeling of monoclonal antibodies. Well-equipped laboratory with multidisciplinary environment. Ideal position for the chemist desiring to apply chemical solutions to biological systems. Position is NIH-funded and applicants must be U.S. citizen or permanent resident. Please send curriculum vitae with name of two references to: Richard L. Wahl, M.D., Division of Nuclear Medicine, University of Michigan Medical Center, Ann Arbor, MI 48109-0028. The University of Michigan is a non-discriminatory, Affirmative Action Employer.

POSTDOCTORAL FELLOW (associate position) in cancer pharmacology/tumor biology laboratory. Must have experience with radioisotope binding studies. Working knowledge of molecular biology, ICP, or bioflorescence techniques an asset. Salary to $26,000 depending on experience. Please send letter of interest and curriculum vitae to: Dr. Thomas Chan, 1024 Hall, Purdue University, West Lafayette, IN 47907. The University of Purdue is an Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL FELLOW position available immediately to study the role of extracellular matrix, cell-cell interactions and growth factors in regulating programs of gene expression that control cell cycle growth, and cell-cell recognition. Experience in cell biology and/or molecular biology is desirable. Please send curriculum vitae and names of two references to: Dr. D. C. G. Beams, Department of Biology. University of Indiana, Bloomington, IN 47405. The University of Indiana is a non-discriminatory, Affirmative Action Employer.

POSTDOCTORAL FELLOW position available immediately to study the role of extracellular matrix and cell-cell interactions in growth and differentiation. Experience in cell biology and/or molecular biology is desirable. Please send curriculum vitae and names of two references to: Dr. D. C. G. Beams, Department of Biology. University of Indiana, Bloomington, IN 47405. The University of Indiana is a non-discriminatory, Affirmative Action Employer.

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POSTDOCTORAL POSITION available immediately in virus assembly. Biochemical and recombinant DNA techniques will be used to study replication and gene expression in DNA phages, and assembly of its simple membrane structure. Send resume and references to: Leonard Mindich, Public Health Research Institute, 455 First Avenue, New York, NY 10024.

POSTDOCTORAL POSITION available for studies of protein-nucleic acid interactions involved in gene regulation, combining protein crystallography and mutagenesis. Individuals with experience in crystallography or protein chemistry are encouraged to apply. The laboratory is equipped with state-of-the-art equipment for protein preparation, x-ray diffraction, computer graphics, etc. Send curriculum vitae and names of three references to: Dr. Kathryn Ely, c/o North Bedfie/ding, La Jolla Cancer Research Foundation, 19091 North Torrey Pines Road, La Jolla, CA 92037. Equal Opportunity Employer.

POSTDOCTORAL POSITION—HUMAN MOLECULAR GENETICS, available 1 October 1988, to apply the direct sequencing techniques of GAWTS and RAWTS to study spontaneous germline mutations in humans (Stout, et al., Science 239, 491 (1988); Sarkar and Sommer, Nucleic Acids Res. 16, 5197 (1988)). NIH NRSA funding is available for 2 to 3 years; U.S. citizenship or permanent residency is required. Applicants should submit curriculum vitae, selected reprints, and names of three references to: Steve S. Sommer, M.D., Ph.D., Department of Biochemistry and Molecular Biology, Mayo Clinic/Foundation School of Medicine, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION/RESEARCH ASSOCIATE available to study human disorders of visual-oculomotor systems. Candidates with a Ph.D., a research background in oculomotor systems, vision psychophysics, or visual motor control systems are preferred. The position is sponsored by the Department of Neurology, Stanford University. Send resume and three letters of reference to: M.D., Department of Neurology, Santa Clara Valley Medical Center, 751 South Bascom Avenue, San Jose, CA 95128. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS
Two postdoctoral positions are available in Fall 1988 to investigate the biochemical and molecular biological basis of increased plant growth, NHI assimilation and N2 fixation in legumes. The effects on the legumes accompany a selective, partial inhibition of plant glutamine synthetase in the legume nodules. An initial report of these findings is in press, in Sober, 1988. Highly motivated individuals with experience in either pro- or eukaryotic metabolism/enzymology or molecular biology are sought to join active research efforts characterizing this system. Dr. P. Langston—Unkefer of Los Alamos National Laboratory, Mail Stop C345, Los Alamos NM 87545 leads the overall project with emphasis on the biochemical investigations. Dr. G. Sarkan—Director of the Plant Genetic Engineering Laboratory, New Mexico State University, Las Cruces, NM 88003 leads the molecular biological investigation. Contact either researcher directly for additional information.

To formally apply, send resume, employment application, undergraduate and graduate transcripts, and three letters of reference to: Carol Rich, Human Resources Development Division PD-88-028, Los Alamos National Laboratory, Los Alamos, NM 87545. Los Alamos National Laboratory is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available (15 August 1988) in biochemical pharmacology of cancer chemotherapy agents: (i) enzymatic mechanisms of bioreductive activation of drugs and combinations; and (ii) their cytotoxic selectivity in animals. Training or recent experience in experimental cancer chemotherapy with strong biochemistry background is desirable. Competitive stipend based on experience. Application may be made to: Dr. Herbert S. Schwartz, Department of Experimental Therapeutics, Roswell Park Memorial Institute, Elm and Carlton Streets, Buffalo, NY 14263. Equal Opportunity Employer/Affirmative Action.
Dynamic, expanding diagnostics company and European leader in Coagulation is looking for a

**MANAGER RESEARCH & DEVELOPMENT COAGULATION**

in order to head a small research team.

You are an expert in Thrombosis and Hemostasis and will lead our growing team in the development of chromogenic and immunological based assays for clotting factors.

Ideally you have a Ph.D. in Biochemistry or equivalent and proven experience in the commercial assay development in this field.

Please send your C.V. to Mrs. M. von Anacker, Manager Human Resources, Baxter Dade AG, Bonnstrasse 9, CH-3186 Duedingen/Switzerland, phone (41 int.) 37 / 43 91 11.

Baxter Dade AG

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**POSTDOCTORAL POSITION AVAILABLE AT THE NATIONAL INSTITUTES OF HEALTH, PHS**

The Human Motor Control Section in the Medical Neurology Branch, at the National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) has an opening for a 2-3 years postdoctoral fellowship. We would expect this person to be a neurophysiologist familiar with Evoked Potentials and to study normal volunteers and patients with different neurological disorders. We are looking for an individual capable of interacting in an interdisciplinary group interested in topographic brain mapping and evaluation of plastic changes in human motor and sensory cortex using noninvasive techniques. Skills in recording and analyzing evoked potentials, programming in languages such as FORTRAN, assembly, Pascal and C, and using PDP 11 with RT-11 operating system and MicroVAX with VMS operating system computers are desirable.

Candidates must be U.S. citizens and have completed their doctorate training with no more than 3 years postdoctoral experience. Stipends begin at $24,000 but may be adjusted depending on the candidates postdoctoral experience. Appointments would be as an intramural research training associate (IRTA).

The NINCDS is located at the National Institutes of Health in Bethesda, Maryland just north of Washington, D.C. If you have an interest in this position, please send a letter describing yourself and include a statement of scientific and/or clinical interest, a resume, and three letters of reference to:

Attention: Postdoctoral Position Application
c/o Leonardo G. Cohen, M.D.
Human Motor Control Section
Medical Neurology Branch-NINCDS-NIH
9000 Rockville Pike
Building 10, Room SN226
Bethesda, Maryland 20892.
Phone: (301) 496-0219

"For further information on benefits, contact: Wallace Holland
NINCDS Personnel Office (301) 496-6334."

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SCIENCE MAGAZINE
NEW LAB SERVICE DEPT.
1515 BROADWAY
NEW YORK, N.Y. 10036
Postdoctoral Position in Biochemical Toxicology

The department of drug metabolism has a position for a recent Ph.D. graduate in Biocchemistry, Pharmacology, Toxicology, or a related discipline. The postdoctoral fellow would propose independent research relevant and complementary to \textit{in vitro} drug metabolism and biochemical toxicology. Current research interests include tissue specific regulation of drug metabolizing enzymes and the biosynthesis of leukotriene C4 in the lung. A background in biochemical and molecular biological techniques is desirable.

At Glaxo, growth opportunities and up-to-date facilities are complemented by a location (Raleigh-Durham) that has excellent resources in close proximity. Prestigious universities, scenic vistas, lively recreational areas, and exciting cultural opportunities are all a part of the daily life of the Glaxo professional. Further, we reward talent and creativity with an excellent salary and benefits package (including a completely equipped, on-site athletic facility). Candidates interested in this position, please send resume including salary history, to:

Human Resources Department
Job #8625X928

Glaxo Inc.
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Research Triangle Park, N.C. 27709
(No Phone Calls, Please)
No Private Agency Referrals, Please
An Equal Opportunity Employer M/F/H/V
Paving the way to a healthier world.
POSTDOCTORAL POSITION IN IN VIVO NMR—The Pennsylvania State University, Department of Radiology has a position immediately at the postdoctoral level for an individual with interest/experience in in vivo NMR spectroscopy/imaging. Background in animal imaging technique is desirable. Additional experience in biochemistry, physiology, or rf electronics is highly desirable. Applicants should submit letter of application, curriculum vitae, and the names of at least three references to: Dr. Michael B. Smith, Department of Radiology, P.O. Box 850, Hershey, PA 17033, An Affirmative Action/Equal Opportunity Employer. Women and Minorities are encouraged to apply.

THREE POSTDOCTORAL POSITIONS to study (i) skin cytochrome P-450 and mechanisms of skin tumorigenicity, (ii) skin photosensitization and photodynamic therapy of skin cancer, and (iii) immunodermatology and photomucosal. Ph.D. with relevant experience desirable. Send curriculum vitae with names of references to: Dr. Hasan Mukhtar, Research Director, Department of Dermatology, Case Western Reserve University, Cleveland, OH 44106.

TWO POSTDOCTORAL POSITIONS available for studies of the role of calcium and physiological metabolism in myocardial regulation in physiological and pathological states, including irreversible ischemic injury in heart and cultured myocytes. One position will investigate the role of phospholipases in these processes utilizing biochemical techniques and phospholipase inhibitors. The other position will investigate indicator substances, such as fura-2, and cellular imaging techniques to study the dynamic changes in calcium metabolism in myocytes. Our laboratory is well-funded and these positions are available for 3 years. U.S. citizens or permanent residents send curriculum vitae with names and telephone numbers of three references to: Drs. L. M. Buja and H. K. Hagler, H2-310 Pathobiology of Tissue, Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9072. An Equal Opportunity Institution.

POSTDOCTORAL RESEARCH ASSOCIATE

Available immediately for study on glycation and oxidation of proteins in diabetes and aging. Prefer Ph.D. in biochemistry with experience in bioanalytical/biokinetic chemistry or protein chemistry, and working knowledge of HPLC or GC/MS for project on characterization of products of modification of proteins by glucose and oxidative reactions. Send curriculum vitae to: Professor John W. Baynes, Department of Biochemistry, University of South Carolina, Columbia, SC 29208. Telephone: 803-777-7272.

POSTDOCTORAL RESEARCH ASSOCIATES

(i) To study the mechanism of pH-regulated gene expression in E. coli. Experience with DNA analysis, microbial genetics, or bacterial physiology required. (ii) To construct and analyze mutants of a small drug resistant dihydrofolate reductase. Experience with DNA mutagenesis technology, protein overproduction, or protein stability required. Opportunity to collaborate on enzymology and biophysical studies. Send curriculum vitae and letters of reference to: G. N. Bennett, Department of Biochemistry, Rice University, P.O. Box 1892, Houston, TX 77251.

POSTDOCTORAL RESEARCH ASSOCIATE(S): Positions available Autumn, 1988 for (i) cell biology in Helicobacter pylori, (ii) catabolic enzymes of microorganisms, and (iii) immunopharmacology. Areas of interest include cell stimulation, surface receptors, and endocytosis. Experience in enzyme analysis, cell fractionation, and electron microscopy desirable. Send curriculum vitae and names of references to: Dr. John M. Robinson, Department of Anatomy, The Ohio State University, 4172 Medical Research Hall, 333 West 10th Avenue, Columbus, OH 43210. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE position available to study RNA Processing in animal cells and viruses. Background either in biochemistry, microbiology or molecular biology desired. Experience in recombinant DNA technology desirable. Salary negotiable. Send resume with two names and references to: Dr. Mary Edmonds, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITION available immediately (M.D. or Ph.D.) for research on the intestine: control of intestinal differentiation, cell adhesion, basement membrane of cell polarity and plasma membrane glycoprotein synthesis, basement membrane synthesis and the roles of vitamin D and A in the control of enterocyte differentiation. Send curriculum vitae, names and addresses of three references to: Dr. Milton M. Weiser, State University of New York at Buffalo (SUNY), Division of Gastroenterology, Buffalo General Hospital, Kimberly Building, 100 High Street, Buffalo, NY 14203. SUNY is an Equal Opportunity/Affirmative Action Employer.

Associate Senior Investigator—Cardiovascular Pharmacology

A health care company that markets prescription and proprietary products for human and animal health care has an opening for an Associate Senior Investigator, Cardiovascular Pharmacology in its Department of Cardiovascular Pharmacology at its research and development facility in King of Prussia, Pennsylvania.

The principal duties of the position include planning, conducting, supervising, and evaluating pharmacologic research directed at finding pharmacologic entities which provide a rational basis for the design of new cardiovascular drugs capable of preventing and retarding hypertension, congestive heart failure and myocardial infarction. Such research includes (i) studying the vasoconstrictor effects of platelet-derived growth factors ("PDGF"); (ii) investigating the mechanism of action for the antithrombotic effects of novel compounds; (iii) studying the mechanism by which certain chemical agents produce vasoconstriction in the cardiovascular system and (iv) studying the mechanism by which coronary artery reperfusion exacerbates myocardial infarction and discovering chemical agents to inhibit this process.

The minimum requirements for the position are a Ph.D. degree in Cardiovascular Pharmacology and four years experience in cardiovascular pharmacologic research. Cardiovascular pharmacologic research (i) characterizing a renoendothelium in the cardiovascular system; (ii) studying the vasoconstrictor effects of platelet-derived growth factors and (iii) experience in studying mechanisms of myocardial infarction.

Salary of $42,000 with liberal employee benefits. No fee charged. Qualified applicants should submit resume or curriculum vitae to Philadelphia Job Bank, 444 N. 3rd Street, Philadelphia, PA 19123 and refer to Order Number 4192904. Equal Opportunity Employer. M/F/H/W.
Opportunities in Biotechnology

Repligen Corporation is a leader in the application of Biotechnology to the health care and personal care markets. We are currently developing an AIDS vaccine and AIDS therapeutic products, products for the treatment of infectious diseases, cancer therapies, and novel biocompatible personal care products. We take pride in the high caliber of our scientific staff and our collaborations with major research institutions and corporate partners in Europe and the United States. The expansion of our efforts has created the following opportunities:

Protein Chemistry

**Research Scientist** Ph.D with 2-4 years’ post-doctoral experience. We are seeking a creative individual to lead protein structure-function projects in the area of retroviral infection and immunomodulation. Experience with physical methods of protein characterization and computer modeling of protein structure is required. The successful candidate will have a proven record of creative research and accomplishment.

**Research Scientist/Associate Scientist** We are looking for a recent Ph.D in Protein Chemistry with extensive experience in protein isolation, purification, and characterization.

Immunology

**Research Scientist/Associate Scientist** Ph.D. in Immunology or closely related field with 1-3 years’ post-doctoral experience. Two positions exist for scientists with extensive backgrounds in cellular immunology or direct experience with hybridomas and monoclonal antibodies.

Repligen Corporation offers a competitive salary, excellent benefits, and equity participation. Please submit a cover letter, resume, and references to Barbara Fleming, Recruiter, Repligen Corporation, One Kendall Square, Bldg. 700, Cambridge, MA 02139.

An Equal Opportunity Employer.

Research Assistant/Associate

Genentech, Inc., a leader in the field of biotechnology, has the following opportunity available in our Pharmacological Sciences group.

An individual with 3-5 years of post-graduate experience is sought to assist with radioreceptor binding technology and assay development for novel drug discovery projects. This opportunity requires experience with computer-assisted analyses of receptor binding data, such as the Lundon program, as well as a background in enzyme inhibition studies. Knowledge of HPLC and in vivo receptor binding techniques is desirable. An MS in Biology/Chemistry or Pharmacology or equivalent is preferred.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume to Carol B.G. Deasy, Human Resources Department, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.

R & D Project Team Leader

**BIOCHEMISTRY/MOLECULAR BIOLOGY**

FMC BioProducts, a major manufacturer of agarose and other fine materials for biotechnology and life science research, is recruiting a project leader for its Research and Development department. The project leader will be responsible for the scientific and administrative direction of product development for specified areas of the research market.

The successful candidate will have a PhD or equivalent and five or more years of postdoctoral experience, at least two of which must be in industry. Previous supervisory or administrative experience is required. Areas of professional expertise/experience should include molecular biology and protein chemistry. Experience in polysaccharide, polymer or physical chemistry is highly desirable. The successful candidate will possess strong communication skills and be willing to travel up to 20%.

This position is located in FMC’s facilities in Rockland, Maine. Our beautiful coastal location offers relaxed but relatively cosmopolitan small-town living, with excellent schools and easy access to outdoor recreation. FMC offers a competitive salary and excellent fringe benefits.

Applicants must be US Citizens or permanent residents. Applications from female and minority candidates are strongly encouraged. Send your resume in confidence (no later than September 23) to: Human Resources Department, FMC BioProducts, Box 306, Rockland, ME 04841. Equal Opportunity Employer, M/F.
**POSTDOCTORAL RESEARCH ASSOCIATE.** Position available immediately to study tobacco smoke uptake and carcinogenic potential. Experience in immunology, HPLC and autoradiography essential. Proposed studies include animal assays and clinical protocols to evaluate biomarkers of active and passive smoking. Please send curriculum vitae a brief description of prior research, and names of three references to: Dr. N. J. Haley, Division of Nutrition and Endocrinology, American Heart Association, 7272 Greenville Ave., Dallas, TX 75231. An Equal Opportunity Employer. M/F/H/V.

**YALE MEDICAL SCHOOL DEPARTMENT OF CELLULAR AND MOLECULAR PHYSIOLOGY.** An NIH POSTDOCTORAL GRANT POSITION is available immediately to study the molecular biology of the Ca-activated K channel (Gar- dos) as expressed in red blood cells and other cell lines. Approaches include labeling, purification, antibodies, probes, cloning, expression, reconstitution and transport function. Background in biochemistry and cellular physiology desirable. Send curriculum vitae and two letters of reference by 15 August to: Joseph F. Hoffman, Department of Cellular and Molecular Physiology, Yale Medical School, 333 Cedar Street, New Haven, CT 06510. Yale University is an Equal Opportunity Employer.

**PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS AVAILABLE IN TOXICOLOGY.** Positions to be filled in the following areas: percutaneous absorption of toxicants, toxicokinetics, metabolism and toxicokinetics; mechanisms of comparative toxicity; mechanisms of xenobiotic interactions; monoxygenase enzymes; molecular basis of enzyme specificity; mechanisms of tumor promotion. Applicants should submit a statement of research interests and curriculum vitae, to: Chairman, Toxicology Program North Carolina State University Box 7633 Raleigh, NC 27695 North Carolina State University is an Affirmative Action University.

**PRODUCT MANAGER** Promega Corporation, based in Madison, Wisconsin and a leading manufacturer of molecular biological products for research and industrial scientists, is seeking a talented individual for the position of Product Manager. This position has product management responsibility for Promega's Traditional Products line. Responsibilities include advertising and promotion of current products, competitive comparisons, sales aids, product line pricing and forecasts, as well as profit and loss monitoring by product. The position requires a M.S. degree or equivalent in a molecular biology related field with a minimum of 3 years of industrial experience in a product management role. Excellent oral and written communication skills are required. Promega Corporation offers a competitive salary, comprehensive benefits program, and a challenging environment in which to apply your professional skills. To apply, please forward a résumé and references to: Promega Corporation Personnel Department 2800 Second Street Fish Hatchery Road Madison, WI 53711-5305 Promega Corporation is an Equal Opportunity Employer.

**U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE SOUTHERN FOREST EXPERIMENT STATION** PROJECT LEADER/SUPervisory RESEARCH SCIENTIST. USDA-FS Southern Forest Experiment Station, is seeking a re- search plant pathologist to lead a team of researchers on fusarium rust, needle cast diseases (a new one with unknown causal agent), and other new diseases (replacements for methyl broomide). Knowledge of plant or fungal genetics and forest pathology are required. Salary range is GM-0 ($39,530-$66,679). Information concerning the position may be obtained from: Personnel Management, Room T-10210, USFSB, 701 Loyola Avenue, Room A-117, Chicago, IL 60611-7013. Telephone: (312) 589-3921. The USDA is an Equal Opportunity Employer.

**HARVARD MEDICAL SCHOOL PROFESSOR OF BIOLOGICAL CHEMISTRY AND MOLECULAR PHARMACOLOGY.** Applications are invited for the position of professor of biological chemistry and molecular pharmacology, Harvard Medical School. Candidates should have strong credentials in the area of eukaryotic molecular genetics and gene regulation. Major responsibilities will include supervision of an active research program in this area and teaching of biochemistry and graduate and medical students. Applicants should submit curriculum vitae and bibliography to: Dr. Priscilla A. Schaffer, Chairperson of the Search Committee, Cancer Center Institute, 44 Binney Street, Boston, MA 02115. Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. Qualified female and minority applicants are encouraged to apply.

**RESEARCHER EXCITATION AND ADAPTATION.** POSTDOCTORAL POSITION available 1 September 1988 to join group identifying pathways regulating the excitation and adaptation of photoreceptor outer segments, a model for many other receptor systems. Research areas include: phototransduction, chlorophyll, and enzymological studies of permeabilized cells. Send curriculum vitae and names of three references to: Dr. Deric Bownds, Department of Molecular Biology, 1525 Linden Drive, University of Wisconsin—Madison, Madison, WI 53706. An Equal Opportunity Employer M/F.

**RESEARCH AND POLICY ANALYSIS.** Major corporation providing technical support to the U.S. Environmental Protection Agency in the area of global climate change has openings for JUNIOR AND MIDDLE LEVEL ANALYSTS in the fields of:

- Energy policy analysis
- Energy efficiency analysis
- Alternative energy sources
- Global agriculture and forestry
- Climate modeling
- Global tropospheric and stratospheric chemistry

Requirements: minimum of master's degree and 2 to 5 years of experience. Familiarity with economics and systems analysis desirable. Candidates should send a résumé to: The Bruce Company 3701 Massachusetts Avenue, NW Washington, DC 20016

**RESEARCH ASSOCIATE.** Ph.D. in physics or biophysics with 2 years of training in electron microscopy and 2 years of experience in x-ray crystallography or electron image processing to conduct research into the structure and functions of GAT/Pase. Ability to handle saccular reticulum membranes required. Forty hours per week. Salary: $17,500. Apply to: Employment Security Commission, 516 North Magoon Street, Durham, NC 27701 or your local Job Service Office. Refer to Job Order Number NC1702503, DOT Code 090-270-10. Affirmative Action/Equal Opportunity Employ- er.

**RESEARCH ASSOCIATE.** The Laser and Applied Technology Laboratory, Charlotte Memorial Hospital and Medical Center, invites applications for a full-time research associate position. The position will involve research in cardiovascular applications of lasers. Individuals applying should have previous experience in small animal cardiac surgery, cardiac catheterization, cardio pulmonary bypass perfusion of canines, and the use of lasers. A 2- to 4-year degree in a related field is also required. Salary range $24,005.20 to $36,004.80. Interviews will be conducted immediately and applicants will submit curriculum vitae and letters of recommendation by 15 September 1988 to: George Tatsis Heineken Medical Research Laboratory P.O. Box 3286 Charlotte, NC 28223 Equal Opportunity Employer.

**RESEARCH ASSOCIATE (MANHATTAN).** Applying principles of bacteriology, immunology, tissue culture techniques and demethylation to the pathogenesis of rheumatic fever, researches the immunological and genetic aspects of rheumatic fever. Researcher relationship between streptococcal bacterium and rheumatic fever to develop a diagnostic test to predict how children are susceptible to rheumatic fever. Requirements: Ph.D. in bacteriology/immunology plus 1 year of experience on projects involving streptococcal infection. Send résumé in duplicate to: RG #309, Room 501, One Main Street, Brooklyn, NY 11201.

**RESEARCH ASSOCIATE: BIOPHYSICIST/PHYSICIST with knowledge of biological macromolecules needed to participate in NIH-supported study aimed at determination of molecular structure of lipid-protein systems. Experience in dealing with x-ray and neutron diffraction results required. Please send curriculum vitae and three letters of recommendation by 1 October 1988 to: Dr. Leonard J. Banaszak, Department of Biological Chemistry, Washington University School of Medicine, Box 8094, St. Louis, MO 63110. Affirmative Action/Equal Opportunity Employer.

**RESEARCH ASSOCIATE POSITION available immediately to conduct research in a near membrane epi- thelium. Position involves establishing immortalized or tumor cell lines representative of certain epithelial pheno- types and using the cells to function, and regulation of specific components. Work will be conducted in collaboration with Drs. John R. Hasell, Richard A. Thoft and other members of the Department of Orthopaedics, University of Pittsburgh School of Medicine and The Eye & Ear Institute. The work will utilize both clinical and basic resources. Applicants should have a Ph.D., 2 years of postdoctoral experience and experience in cell culture. Familiarity with immunological techniques, molecular biology, chroma- tography and virology desirable. Send curriculum vitae, a brief statement of research interests, and three letters of reference to: Mary Ann Manoloff, Administrative Co- ordinator, The Eye & Ear Institute of Pittsburgh, 2600 North Street, Pittsburgh, PA 15213. The University of Pittsburgh is an Equal Opportunity/ Affirmative Action Employer.

**RESEARCH ASSOCIATE POSITION available immediately for Ph.D. to study the molecular biology and regulation of the kidney vascular H+ ATPase. Background in other recombinant and/or mammalian expression methods is desirable. Recent work: see PNAS 85, 3004 (1988); JBC 262, 15780 (1987); Nature 331, 622 (1988). Excellent salary and comprehensive benefits. Send curriculum vitae with a brief statement of research interests, and three letters of reference to: Dr. Stephen Gluck, Jewish Hospital/ University School of Medicine, 216 South Kingshighway, St. Louis, MO 63110.

**RESEARCH PH.D.** Immediate opening for Ph.D. with interest in basic and clinical research work in cardiac physiology, electrophysiology/ biochemistry. The successful candidate should have interest and experience in cardiovascular animal research. Experience in handling various bio- logical techniques like electrocardiography and electropho- rometry desirable. This challenging position offers opportu- nity for growth in clinical as well as basic cardiovas- cular research. Winthrop University Hospital is a 533- bed teaching affiliate of SUNY, Stony Brook School of Medicine, offering competitive salary, comprehensive benefits package and a professional working environment. The position involves clinical, professional, and research experience in electrophysiology, invasive cardiac and cardiac surgical facili- ties. Send résumé or contact: Steven Zeldis, M.D., or Kul D. Chadda, M.D. Winthrop University Hospital 259 First Street Mineola, Long Island, NY 11501 or call: The Human Resources Department, Tele- phone: (516) 665-2451. Equal Opportunity Employer M/F/H.
POSITIONS OPEN

RESEARCH ASSOCIATE wanted to join an active, pediatricaIly focused research group working on the molecular biological aspects of skeletal tissue remodeling, in particular, gene expression in bone resorption. The successful candidate will hold a doctorate in a biological or biochemical discipline, and have 2 to 5 years of postgraduate experience in research related to the mission of the laboratory. The associate will be expected to help supervise trainees and to undertake some independent research. Interested parties should send curriculum vitae, a description of laboratory experience, and the names of three references to: Dr. George F. Martin, Director, Pediatric Research Institute, 3662 Park Avenue, St. Louis, MO 63110. An Equal Opportunity Employer.

RESEARCH ASSOCIATE—NEUROBIOLOGY. Position in established laboratory to study neurobiology of peripheral and central auditory and vestibular processes. Experience in receptor binding, immunochemistry, recombinant DNA techniques, or peptide/protein microchemistry required. Salary commensurate with experience. Duration: 2 to 3 years, renewed annually. Send curriculum vitae and representative publications, and names of three references to: Dr. Dennis Drescher, Laboratory of Bio-otology, Wayne State University, School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH POSITION available as senior staff or junior faculty, depending on qualifications. We seek an individual to work with a research group concerned with the molecular mechanism of action of steroids on ion transport in epithelia. Candidate should have experience with primary cell cultures and monoclonal antibodies to prepare immunodensegated cultures. A background in membrane transport is desired but not required. Send letter of application, curriculum vitae, and names and addresses of three references to: John P. Hameslert, M.D., Yale University, Department of Internal Medicine, 333 Cedar Street, New Haven, CT 06510.

RESEARCH SCIENTIST: Develop non-radioactive receptor-ligand binding assays to study drug action. Experience in membrane biology and/or pharmacology is highly desirable. Send letter of application, curriculum vitae, and three letters of reference to: Dr. Dennis Hamesler, Laboratory of Biochemistry, Wayne State University, School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST POSITION IN MOLECULAR VIROLOGY. A position is available in the Department of Medical Microbiology and Immunology at The Ohio State University Medical Center to study the molecular biology of Epstein-Barr virus, particularly in regard to its association with nasopharyngeal carcinoma. Applicants should have a Ph.D. or M.D. degree and postdoctoral training in molecular virology. Experience with herpesviruses is preferable but not required. Salary will depend upon experience. Send curriculum vitae and three letters of reference to: Dr. Ronald G. Wain, Department of Medical Microbiology and Immunology, The Ohio State University College of Medicine, 333 West 10th Avenue, Columbus, OH 43210. Deadline for applications is 31 August 1988. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

VISITING FELLOWSHIPS IN CANADIAN GOVERNMENT LABORATORIES 1989-90

The Government of Canada offers visiting fellowships in Canadian Government Laboratories to provide promising young scientists with the opportunity to work with well-established research groups and leaders in their fields. These fellowships are tenable in the laboratories of the following departments and agencies:

- Agriculture Canada
- Atomic Energy of Canada Limited
- Communications Canada
- Energy, Mines and Resources
- Environment Canada
- Fisheries and Oceans Canada
- Health and Welfare Canada
- National Defence
- National Museums of Canada
- National Research Council Canada

Eligibility: Applicants should have received a doctorate from a recognized university within the last five years or a master's degree followed by at least two years of research experience and a demonstrated capability to conduct independent research.

There are no citizenship restrictions. However, successful candidates who are not Canadians or permanent residents of Canada must satisfy Canadian immigration requirements.

Stipend: Fellowships have an annual value of $28,992 plus a travel allowance.

Duration of Tenure: Appointments are made for one year; renewals for a second year are possible.

Date of Submission: The deadline for receipt of applications is December 15, 1988.

For further information, contact:

Visiting Fellowships Officer
Natural Sciences and Engineering Research Council
200 Kent Street
OnT, Ontario
Canada
K1A 1H5
Telephone: (613) 996-4363

ASSISTANT/ASSOCIATE RESEARCH SCIENTISTS
Anti-Cancer Research

Progress in anti-cancer research is accelerating at Bristol-Myers' pharmaceutical research facility in Wallingford, Connecticut. It's a setting that encourages interdisciplinary cooperation and rewards individual achievement. The following positions are now available:

Molecular Biology/Gene Regulation

This immediate opening for a Research Assistant/Associate requires a BS/MS in biological sciences. You'll enjoy active and original participation in a research program exploring the molecular basis of cancer. The primary focus will be on identifying cis and trans-acting factors involved in regulating growth factors and oncogenes. Experience in molecular biology and/or protein purification preferred.

Molecular Biology/Immunoology

The Research Associate we seek will have a BS/MS and several years experience in several of the following: cDNA cloning, DNA sequencing, RNA analysis, eukaryotic gene expression, cell culture, and immunological techniques. You will be studying the growth regulation of lymphocytes using molecular biological approaches.

Bristol-Myers offers sustained growth, highly competitive salaries, extensive benefits and career support. Our countryside location is convenient to New Haven and Wallingford, Connecticut, New York City and New England. Please send resume with salary history to: BRISTOL-MYERS COMPANY, Pharmaceutical Research & Development Division, P.O. Box 5100, 5 Research Parkway, Wallingford, CT 06492. An Equal Opportunity Employer M/F/H/V.

Bristol-Myers Company
Explore with us.

29 JULY 1988
TUFFS UNIVERSITY—MEDICAL SCHOOL

Positions Open

BioHybrid Technologies Inc.

Senior Research Associate

An individual is sought to participate in an active laboratory engaged in research related to the microbiology or oral biology. The applicant will be responsible for a small research group in studies of the progression of the microbiota in periodontal disease. This individual will also have input into studies of the cell surface of the virus, as well as having the opportunity to undertake some independent research. Research training is essential, as well as a strong background in clinical microbiology. The applicant must be able to work in a close group setting, and to interact in a positive fashion with others. Requires a Ph.D. or equivalent in general microbiology. Send curriculum vitae to: Office of Human Resources/Employment, The University of Texas at Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284–7972.

Equal Opportunity/Affirmative Action Employer.

CONFERENCES

4th ASM Conference on the Genetics and Molecular Biology of Industrial Microorganisms
2 to 7 October 1988
Bloomington, Indiana

The conference will focus on the genetics, biochemistry, and molecular biology of industri

al microorganisms, with an emphasis on both bacteria and eucaryotes. Contributed papers will be presented in poster format. For registration information, contact: Meetings Department, American Society for Microbiology, 12977, N.W., Washington, D.C. 20006. Telephone: 202–833–9680.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

Available immediately to study mechanisms involved in macrophage activation and the regulation of cytokine secretion. Research experience in signal transduction mechanisms is desirable. Send curriculum vitae to: Dr. Donald Beahdel, Laboratory of Macrophage Biology, Guthrie Research Institute, Sayre, PA 18840.

STAFF FELLOWSHIPS IN BIO MEDICAL RESEARCH

DHHS, PHS, Food and Drug Administration, Center for Biologics Evaluation and Research, Divisions of Bacterial and Viral Vaccines and Biological Investigational New Drugs are seeking applicants for Staff Fellowships from outstanding candidates with Medical Degrees. This program is focusing research and regulatory review efforts in the area of vaccine development. These individuals will play a vital role in the development of clinical research on new vaccines. Candidates must have a strong background in cellular and molecular biology, immunology, and/or clinical research. These individuals will spend approximately one-half of their time with the Division of Biological Investigation of Biological Products, located on the campus of the National Institutes of Health in Bethesda, Maryland.

Salary range for candidates with a Medical Degree is from $24,000 to $50,744. Salary, research support and level of responsibility are commensurate with education and experience. Applicants must be U.S. citizens or resident aliens eligible for citizenship within 4 years. Interested candidates should submit current curriculum vitae and bibliography to: FDA, Center for Biologics Evaluation and Research, Building 29, Room 114P, 8800 Rockville Pike, Bethesda, MD 20892. For further information, contact: Mr. Boyer or Ms. Hatchison on 301–496–5394. FDA is an Equal Opportunity Employer.

TRAINING PROGRAM

POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY

A diversified, interdisciplinary TRAINING PROGRAM in Molecular Biology with more than 20 research teams with excellent research support. Areas of research include:

TUMOR VIROLOGY

MMTV and B cell differentiation
Tumor cell surface glycoproteins
Mammalian cancer
SV40 and adenosine gene expression
Molecular virology of AIDS
ONCOGENES

Adenovirus and heat-shock genes
Chromosomal mapping
Effect on cell-cell communication
Developmental expression of oncoproteins
GROWTH FACTORS
in muscle cell development
Polypeptide hormones
Colon-stimulating factor, granulopoiesis and cell differentiation
Immunologic receptor

This 3-year program is designed for Ph.D., Ph.D./M.D. or M.D. candidates with academic research objectives. M.D.’s may enter a combined molecular biology-residency program. Highly successful candidates will be encouraged to compete for independent research support and may be considered for future faculty positions. Salaries negotiable. Open only to U.S. citizens or permanent residents. Current positions and references to: Dr. Carlos Goldberg, University of Miami School of Medicine, Department of Microbiology and Immunology, P.O. Box 016960 (R-138), Miami, FL 33101. Affirmative Action/Equal Opportunity Employer.

PRE- AND POSTDOCTORAL TRAINING PROGRAM IN TOXICOLOGY

The Graduate Program in Toxicology at the University of Mississippi Medical Center offers pre- and postdoctoral training in these areas of toxicology: pulmonary, liver, CNS, neuromuscular and synaptic transmission, and cardiovascular systems. Strong candidates are encouraged to apply for 2-4 positions available annually. For information and or references to: Rhett M. Mehendale, Program Director, Toxicology Training Program, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, Jackson, MS 39216–4505. Equal Opportunity Employer, M/F/H/V.
POSTDOCTORAL FELLOWSHIPS IN CYSTIC FIBROSIS

The Cystic Fibrosis Foundation announces the availability of postdoctoral fellowships for M.D.s, Ph.D.s, and M.D./Ph.D.s interested in conducting basic or clinical research related to cystic fibrosis.

Awards will be offered through the Foundation's network of research centers or through individual applications submitted to the Foundation. Stipends for these awards are $30,000 (first year); $31,000 (second year); and $33,000 (optional third year).

INSTITUTIONAL AWARDS
Research areas at the centers include, but are not limited to, ion transport, genetics, immunology, and the mechanisms of inflammation. Participating scientists are available to serve as sponsors for postdoctoral training at these institutions.

Interested individuals should contact the following program directors to obtain application information:

Case Western Reserve University
Pamela Davis, M.D., Ph.D. (216) 844-3267
Columbia University
Samuel Silverstein, M.D. (212) 305-3546
Hospital for Sick Children-Toronto
Jack Riordan, Ph.D. (416) 698-7054
Stanford University
Merton Bernfield, M.D. (415) 723-5904
University of Alabama at Birmingham
B. R. Brinkley, Ph.D. (205) 934-0982
University of California, Los Angeles
Larry Shapiro, M.D. (213) 533-3751
University of California, San Francisco
Jay Nadel, M.D. (415) 476-1105
University of Chicago
Harry Fozzard, M.D. (312) 702-1481
University of Iowa
Michael Welsh, M.D. (319) 355-7619
University of North Carolina at Chapel Hill
Richard Boucher, M.D. (919) 666-1077
University of Utah
Raymond White, Ph.D. (801) 581-4330
University of Washington, Seattle
Arnold Smith, M.D. (206) 526-2116

INDIVIDUAL AWARDS
A limited number of individual awards are available to support high-quality applicants interested in working on CF-related projects outside of the research center network. Preference will be given to applicants expressing a long-term commitment to CF-related research. The application deadline for individual awards is October 1, 1988.

For further information on these opportunities, please contact the program directors listed above or Robert J. Beall, Ph.D., Executive Vice President for Medical Affairs:

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


The Strategic Defense Initiative: Some Arms Control Implications. By Richard A. Scribner and Jeffrey Boutwell. A concise overview of topical SDI issues. 1987 (2nd ed.); 44 pp.; softcover $2.50 ($2.00 for AAAS members); AAAS #87-5.

Preventing Nuclear War: Steps That Can Be Taken Now. Edited by Richard A. Scribner. A survey of recent proposals for reducing the risk of nuclear war. It includes an extensive bibliography and glossary. 1987; 80 pp.; softcover $4.00 ($3.20 for AAAS members); AAAS #87-10.


Nuclear and Conventional Forces in Europe: Implications for Security and Arms Control. Edited by W. Thomas Wander. Original essays on major issues related to European security. 1987; 220 pp.; softcover $10.00 ($8.00 for AAAS members); AAAS #87-18.

Emerging Technologies and the Conventional Defense of NATO. By Jonathan B. Tucker. Examines the broad range of issues in the debate over high technology conventional weapons and their implications for NATO defense. 1987; 74 pp.; softcover $7.00 ($5.60 for AAAS members); AAAS #87-20.

Strategic Anti-Submarine Warfare: Technology and Strategy. By Tom Stefanick. An overview of the technologies, operations, and implications of strategic anti-submarine warfare. 1988; 60 pp.; $5.00 ($4.00 for AAAS members); available in Fall 1988; AAAS #87-19.

Fear of Cheating, Fear of Spying: A Videotape and Companion Guide. Prepared by Richard A. Scribner and Shelley Alpern. This 40-minute videotape addresses the politics and technology of nuclear arms control verification with a special emphasis on the current compliance controversy. 1986; $60.00 for VHS or Beta, $75.00 for U-matic (please specify format); AAAS #86-10.

Order from: AAAS Marketing Dept. SG, 1333 H Street, NW, Washington, DC 20005. Please specify the appropriate AAAS #(s); add $2.00 postage & handling per order; and allow 4–6 weeks for delivery. VISA and MasterCard accepted. For shipments to CA, add applicable sales tax.