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POSITIONS OPEN

ASSISTANT PROFESSOR. The Department of Biology, Illinois Benedictine College, has a tenure-track position for fall of 1991; Ph.D. required; 15 November 1990 deadline. Teaching cell biology, introductory biology (taught), and molecular biology/biotechnology as well as directing some undergraduate research, seminars, and/or workshops, and three letters of recommendation to: Dr. Lawrence Kamin, Chairman, Search Committee, Illinois Benedictine College, St. Charles, IL 60174. IBC is an Affirmative Action/Equal Opportunity Employer.

SOIL MICROBIOLOGIST. Tenure-track ASSISTANT PROFESSOR available in the Departments of Biology/Microbiology and Plant Science at South Dakota State University. Principal areas of interest are soil and microbial ecology (specific subspecialization open) and demonstrated research productivity and effective teaching ability or potential. Preference given to persons with a Ph.D. in plant or soil science. Interested persons should send letter of application, curriculum vitae, and three letters of recommendation to: Chair, Search Committee, Department of Biology, South Dakota State University, Brookings, SD 57007. Please indicate classification desired; however, SCIENCE reserves the right to decline classification requests which it believes may be misleading to readers.

BIOPSYCHOLOGY/BEHAVIORAL NEURO-SCIENCE. State University of New York (SUNY) at Stony Brook, Department of Psychology, seeks applicants for a position as an ASSISTANT PROFESSOR for September 1991. The Department of Psychology at SUNY Stony Brook provides very competitive salaries, exceptional research space and technical support, and a relaxed seaside environment 60 miles from Manhattan. Application deadline is 15 November 1990. Send curriculum vitae and at least four letters of support to: Biopsychology Search Committee, Department of Psychology, SUNY at Stony Brook, Stony Brook, NY 11794-5000. SUNY is an Affirmative Action/Equal Opportunity Employer.


X-RAY CRYSTALLOGRAPHER. Tenure-track ASSISTANT PROFESSORSHIP to begin fall 1991. Candidate should have a strong record of research in the determination and functional interpretation of biomolecular structure. Postdoctoral work in an x-ray crystallographic laboratory and demonstrated ability to obtain and maintain government-sponsorship level grants. Submit curriculum vitae, publication list, and three letters of recommendation to: Professor J. Andrew McCammon, Department of Chemistry, University of Houston, Houston, TX 77004-5641. Equal Opportunity/Affirmative Action Employer.

FISH GENETICS. Applications are invited for a 12-month, tenure-track ASSISTANT PROFESSOR position in the Department of Zoology at Southern Illinois University, Carbondale. Position involves 75% research assignment to the Cooperative Fisheries Research Laboratory and 25% teaching assignment in the Department of Zoology. Well-equipped laboratory available. Specialization should include fish genetics as it relates to aquaculture and fish management. Requirements include a completed Ph.D., demonstrated teaching skills and willingness to develop an externally funded research program. Please submit complete curriculum vitae, undergraduate and graduate transcripts, and a description of research interests to: Dr. Roy Heidinger, Chair, Search Committee, Department of Zoology, Southern Illinois University, Carbondale, IL 62901. Starting date: 1 April 1991. For best consideration, submit applications by 15 November 1990; position to remain open until filled. SIUC is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR. FOREST ECOLOGY. Tenure-track position (65% research, 35% teaching) in the School of Natural Resources. The incumbent will be expected to develop a field research program relating to community ecology of forested systems. A Ph.D. with postdoctoral experience is desirable. A resides, travels, and publishes, directs graduate and undergraduate research, serves on committees, and engages in refereed journal publication. Send curriculum vitae, a statement of research and teaching interests, and three letters of recommendation to: Dana Carroll, Faculty Search Committee, Department of Biology, University of Utah, School of Medicine, Salt Lake City, UT 84132. Deadline for applications is 1 December 1990; late applications will be considered if openings are still available. Equal Opportunity/Affirmative Action Employer.
University of Utah School of Medicine
ANNOUNCES THE CREATION OF AN INTERDEPARTMENTAL
Program in Human Molecular Biology & Genetics

The Program is designed to provide an optimal environment for young scientists engaged in studies of the molecular basis of human biology and disease. We plan to establish a community of 15 to 20 investigators. The Program will occupy three floors in the new George S. and Dolores Doré Eccles Building, an attractive, state-of-the-art research facility. Applicants should have an M.D. or Ph.D. degree, or both, and appropriate postdoctoral experience. Participants will have an academic appointment in basic science or clinical departments and the Program. Appointments to the Program will have a duration of 5 years, during which the participants will receive substantial institutional support and will have approximately 90% of their time available for research. Participants will be expected to establish an active, independent research program. Appointments in the Program may be renewed at the completion of the 5 year term, or participants may assume a full-time role in the parent department depending on the goals of the individual department and the Program at that time.

Stephen M. Prescott, M.D., Director
Program in Human Molecular Biology & Genetics
University of Utah, Bldg 500
Salt Lake City, UT 84132

The Division of Cardiology, Department of Internal Medicine
Assistant or Associate Professorship

The targeted area of research interest is the molecular biology of vascular disease, including atherosclerosis, thrombosis, and the biology of exercise, nutrition, and aging. The anticipated role of the individual applicant is to develop an independent research program. The successful candidate will be expected to conduct a vigorous research program contributing to established faculty research programs and to direct activities of the Division and Program. The successful candidate is expected to have an MD and at least three years of postdoctoral research experience. Applicants should send curriculum vitae, statement of research and teaching plans, and three letters of reference to: Stephen M. Prescott, M.D., Director, Division of Cardiology, University of Utah, Salt Lake City, UT 84132.

The Department of Human Genetics
Assistant Professorship

The targeted area of research interest is the molecular genetics of malignancy and applications with this focus will be given preference. Applicants should have a Ph.D. or M.D. degree, and a strong research background. The successful candidate is expected to have at least three years of postdoctoral research experience. The candidate is expected to develop an independent research program. The successful candidate will be expected to conduct a vigorous research program and contribute to teaching and research programs of the Department and Program. Applicants should send curriculum vitae, statement of research and teaching plans, and three letters of reference to: Stephen M. Prescott, M.D., or Raymond L. White, Ph.D., Co-chairmen, Department of Human Genetics, University of Utah Medical Center, Salt Lake City, UT 84132.

The Department of Pediatrics
Assistant Professorship

Applicants should have an M.D. degree, and appropriate training in the diagnosis and management of infectious diseases in children. They also should have sufficient advanced research training to be able to initiate an independent research program. The area of research interest is limited only to a requirement that it deal at the molecular or cellular level with an important aspect of human biology or disease. The successful candidate will be expected to develop an independent research program and contribute to teaching and research programs of the Department and Program. Applicants should send curriculum vitae, statement of research and teaching plans, and three letters of reference to: Stephen M. Prescott, M.D., or Michael A. Simmons, M.D., Department of Pediatrics, University of Utah Medical Center, Salt Lake City, UT 84132.

Division of Rheumatology, Department of Internal Medicine
Assistant Professorship

Applicants should have a M.D. degree, and appropriate training in the diagnosis and management of rheumatological diseases. They should have sufficient advanced research training to be able to initiate an independent research program. The targeted area of research interest is molecular immunology. Applicants with this focus will be given preference. The successful candidate will be expected to develop an independent research program and contribute to teaching and research programs of the Department and Program. Applicants should send curriculum vitae, statement of research and teaching plans, and three letters of reference to: Stephen M. Prescott, M.D., or H. James Williams, M.D., Department of Rheumatology, University of Utah Medical Center, Salt Lake City, UT 84132.

The University of Utah is an Equal Opportunity Employer and Encourages Applications from Members of Minority Groups and from Women.
POSITIONS OPEN

BEHAVIORAL NEUROSCIENTIST

The University of Virginia (UVA), Department of Psychology, invites applications for an anticipated tenure-track, Assistant Professor position to begin August 2019. We seek an individual with multidisci- plinary approaches to the study of brain and behavior relationships. The successful candidate will augment the psychology group within the department and will also participate in the interdepartmental Neuroscience Graduate Program. Submit curriculum vitae, statement of research interests, teaching experience, and three letters of recommendation by 1 December 1990 to: Dr. Robert C. Bruneau, Chair, Psychology Search Committee, Department of Psychology, University of Virginia, Charlottesville, VA 22903. UVA is an Affirmative Action/ Equal Opportunity Employer.

CELL BIOLOGIST

The Department of Biological Sciences, University of Denver, seeks candidates for a tenure-track position at the rank of Assistant Professor. The Department of Biological Sciences is housed in the Anschutz Science Campus at the University of Colorado, and strives to provide a supportive and collegial research environment within the context of a comprehensive liberal arts institution. The AASCU institution offers a rich curriculum for nearly 13,000 students. The successful candidate is expected to have a Ph.D. in a relevant area of biology, and demonstrate a commitment to excellence in both research and teaching. Applications are invited from candidates with experience in research fields related to cellular and molecular biology, biophysics, or biochemistry. All applications should be submitted by 1 December 1990. The University of Denver is an Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGIST

The Biology Department of Holy Cross College seeks to fill a tenure-track position at the rank of ASSISTANT PROFESSOR. The successful candidate must hold a Ph.D. at the time of appointment and be expected to develop an active research program involving undergraduate students. The research should have a cellular or molecular orientation and must be compatible with the environment of a liberal arts college. Teaching responsibilities include a course in neurobiology, participation in introductory biology, and laboratory or psychology majors, and development of a course for nonbiology majors. Holy Cross is a highly selective liberal arts college with an enrollment of approximately 2600 students. It values excellence in both undergraduate teaching and research. Applications, consisting of curriculum vitae, copies of publica- tions, and statements of research interests, must be submitted by 1 December 1990 to: Dr. Susan L. Berman, Chair, Search Committee, Department of Biology, College of the Holy Cross, Worcester, MA 01610. Women and minorities are strongly encouraged to apply. Holy Cross is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR IN IMMUNOLOGY

The Immunology Unit of The Toronto Hospital Ar- thritis Center and the Department of Immunology, University of Toronto, wish to recruit an assistant or associate professor (with the possibility of a tenured position with the University of Toronto) in immunology. Applicants are invited from researchers with Ph.D. or M.D. degree with appro- priate postdoctoral research training.

Inquiries and applications (curriculum vitae and names of three references) should be addressed to:

Dr. R. G. Inman

Department of Medicine and Immunology

Toronto Western Hospital

339 Bathurst Street

Toronto, Ontario, Canada M5T 2S8

FAX: 416-369-6477

ASSISTANT PROFESSOR MOLECULAR AND CELLULAR BIOLOGY

The Department of Microbiology and the College of Medicine at the University of Illinois (Urbana-Champa- ign) seek candidates for a full-time tenure-track faculty position at the assistant professor level. Applicants should have a Ph.D. and postdoctoral experience, and show exceptional promise in developing an active research program in molecular and cellular biology. Research areas of particular interest include, but are not limited to: the pathogenesis of pathogenic microorganisms, microbial physiology and genetics, and molecular para- sitology. Responsibilities include teaching medical and graduate students. Deadline: August 1991. Salary commensurate with experience. The Department of Microbiology offers a supportive and collegial atmosphere, and strong graduate programs. There are extensive interdepartmental interactions in microbial and eukaryotic cell and molecular biology, virology, immunology, biochemistry, and developmental bi- ology, evolution, biochemistry, and biophysics. The Uni- versity of Illinois (Urbana-Champaign) offers an out- standing and exciting academic research environment including a new Biotechnology Center and state-of-the-art facilities for molecular engineering, hybridoma pro- duction, flow cytometry, electron microscopy, X-ray crystalligraphy, and computer modeling.

Applications should submit curriculum vitae and state- ment of research interests, and arrange to have three letters of reference sent to: Sondra G. Lazarowitz, Department of Microbiology, University of Illinois, 407 South Goodwin Avenue, Urbana, IL 61801. Telephone: 217-244-1726. Closing date for applications is 15 December 1990. Interviews may be conducted prior to 15 December; however, all applications received by the closing date will be considered. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF PHYSIOLOGY

Merrim University School of Medicine announces a tenure-track position in physiology. The appointee is expected to participate in the problem-based teaching of medical students and to develop an independent research program. Consideration will be given to qualified appli- cants in any area of physiology. Applicants must possess a Ph.D. and/or M.D. and postdoctoral training. Applica- tions will be accepted until the position is filled. Submit curriculum vitae, statement of career goals and objectives, and names of three references to: Dr. Robert C. Moon, Chairman, Division of Physiology, Division of Physiology, University of Medicine, Macao, GA 31207. All Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR MICROBIOLOGY AND IMMUNOLOGY

The expanding Department of Microbiology and Im- munology at Wright State University is inviting applica- tions from candidates with interests in either immuno- chemistry or the molecular biology of host/parasite interactions. A competitive applicant should possess a Ph.D. or M.D. with high potential for the development of an independently funded and productive research program. Although preference will be given to candi- dates at the University of Illinois (Urbana-Champaign) or equivalent, all applicants are encouraged. The department is located in the Scholl Cross Building of the College of Science and Mathematics with teaching responsibilities for medical, nursing, and medical technology stu- dents, as well as graduate students in the Ph.D. Program in Biological Sciences. The Ph.D. Program is a 12-month tenure-track appointment with available start-up funds and incentives. Send curriculum vitae, names and ad- dresses of three references, a statement of research and teaching interests to: Neal S. Rote, Ph.D., Profes- sor and Chair, Department of Microbiology and Immunology, 409 Wright State Uni- versity, Dayton, OH 45439. Evaluation of applicants will begin 1 November 1990 and continue until a suitable candidate is found. Women and minorities are encouraged to apply. Wright State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR in micro- biology with a specialty in virology. Applications are invited for a tenure-track position starting date in the microbiology department. The department is responsible for teaching basic microbiology to dental students and postdoctoral students. A successful applicant will be expected to teach, pursue an active research program in his/her area of expertise and interact positively with the graduate program at the university. The appointee will also be expected to interact with members of the basic and clinical research departments of the dental school. Applicants should submit a letter of application, cur- riculum vitae, a statement of teaching and research goals, and the names of at least three references to:

Dr. Joel Rosenberg

Associate Dean for Research

School of Dental Medicine

University of Pennsylvania

321 North 32nd Street

Philadelphia, PA 19104

Position at the rank of ASSISTANT OR ASSOCIATE PRO- FESSOR OF MICROBIOLOGY AND IMMUNOLOGY. The University of Arizona, College of Medicine, Department of Microbiology and Immunology, seeks a tenure-track faculty member in microbiology at the rank of Assistant or Associate Professor. The successful candidate should have an M.D. or Ph.D. degree and a record of research and teaching experience. The applicant should be able to develop an independent research program in the area of molecular immunology. Applications are invited from candidates whose research interests are closely related to the faculty currently in the area. The University of Arizona is an Affirmative Action/Equal Opportunity Employer. Salary: Competitive, based on experience. Application procedure: Send a letter of application briefly stating teaching experience in cell pathology or neuroscience and research interests, curriculum vitae, and names, addresses, and telephone/FAX numbers of three references to: Michael J. Dimino, Ph.D., Director, Biomedical Program, University of Alabama Anchor- age, 2111 Providence Drive, Anchorage, AK 99508. All application materials must be re- ceived by 30 November 1990.

TERRY FOX CANCER RESEARCH GROUP

Sir Mortimer B. Davis–Jewish General Hospital and McGill University are seeking a GROUP LEADER for a phasal cancer group for an independent cancer research. This is a tenure-track position in conjunction with the Department of Oncology at McGill University. The primary emphasis is on basic research but preference will be given to candidates whose research can interact with a clinical level. Molecular genetics of human tumors, drug resistance, and growth factor biology are areas of poten- tial interest. An excellent clinical research program now exists and comprehensive support from a Terry Fox Team Development grant will be used to develop a strong complementary basic research program. It is envisaged that the research group will take advantage of the clinical information and material to develop the goals of the laboratory programs.

The group leader should hold a Ph.D. or M.D. degree, have significant research experience, preferably in a lead- ership capacity, and have the track record for developing a vigorous independent cancer research program. It is intended that the group leader will play a major role in the selection of the research team. Excellent laboratory facilities, start-up funds, and in- frastructure support at the Lady Davis Institute and at McGill University are available.

Salary will be commensurate with experience.

Please send curriculum vitae, a brief statement of research goals, and the names of at least three references to:

Ricardo G. Margolles, M.D.

Herbert Black Professor of Surgery

Director of Oncology

Jewish General Hospital

3755 Cowan St., Canada

Montreal, Quebec, Canada H3T 1E2

SCIENCE, VOL. 250
THE MEDICAL COLLEGE OF PENNSYLVANIA

CHAIR

DEPARTMENT OF ANATOMY AND NEUROBIOLOGY

The Medical College of Pennsylvania invites applications and nominations for the position of Chair, Department of Anatomy and Neurobiology. The department currently has ten full time faculty members with a strong emphasis on Neuroscience research ranging from molecular to behavioral studies. The faculty is well funded and, in addition, has a NIH funded Program Project Grant on mechanisms of recovery from spinal cord injury and a funded postdoctoral program. The number of individuals, including staff, pre and postdoctoral students and faculty, totals sixty-three.

We seek a distinguished scientist and educator in cell, developmental, molecular, or neurobiology or genetics with proven ability in Administration who can lead and expand the department. The Medical College of Pennsylvania is undergoing an expansion phase of its physical facilities that will allow the potential for the addition of faculty and space to the department.

A letter of interest or nomination, curriculum vitae, and the names of at least three references should be sent by October 31, 1990 to George L. Popky, M.D., Chair, Anatomy and Neurobiology Search Committee, Professor and Chairman, Department of Radiologic Sciences, The Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, Pennsylvania 19129. Equal opportunity/affirmative action employer.

MCP
The Medical College of Pennsylvania

DEAN, SCHOOL OF MARINE SCIENCE
DIRECTOR, VIRGINIA INSTITUTE OF MARINE SCIENCE
OF THE
COLLEGE OF WILLIAM AND MARY

Nominations and applications are invited for the joint position of Dean, School of Marine Science (SMS), and Director, Virginia Institute of Marine Science (VIMS). VIMS/SMS is dedicated to development of new knowledge through programs of research, to graduate education, and to provision of technical advice relating to the marine resources of Virginia.

The academic program offers M.A. and Ph.D. degrees in Marine Science. Regional, national, and international research programs encompass a broad spectrum of marine science and marine resource management disciplines, with emphasis on estuarine and coastal waters.

The successful candidate will be expected to provide outstanding administrative and programmatic leadership to growing academic and research programs and to provide effective communication with public, corporate, and governmental groups. The scholarly achievements of this individual should be appropriate for appointment as a full professor. At present, the Dean and Director administers a scientific and support staff of approximately 325, 61 of whom are academic faculty; an annual operating state general fund budget of approximately $11.2 million; a research vessel fleet; and a large physical plant. The graduate student body numbers approximately 130. In FY 89-90 active extramural research awards were approximately $11 million. Nominations, or, in the case of applicants, a letter of application, detailed resume, and names and addresses of at least three references, should be sent to:

Professor Robert J. Byrne, Search Chair
Virginia Institute of Marine Science
School of Marine Science
College of William and Mary
Gloucester Point, Virginia 23062.

The Search Committee will begin reviewing applications by 1 December 1990 and will continue the review and interview process until the position is filled. The preferred starting date for the position is 1 July 1991.

The College of William and Mary is an Equal Opportunity, Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR OF CHEMICAL ENGINEERING

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Applicants are invited for a junior-level, tenure-track faculty position in the Department of Chemical Engineering. Applicants should have a Ph.D. in Chemical Engineering or a closely related field, have demonstrated excellence in academic research, and should have a strong interest in teaching graduate and undergraduate chemical engineering. Applicants are preferred with research interests in either combustion science and fuels engineering, high temperature chemistry, catalysis or polymer chemistry. Outstanding candidates with other research interests will be considered. Send resume including the names of at least three references, graduate transcripts and a description of research interests to: Dr. Robert A. Brown, Head, Dept. Chem. Engrng., Massachusetts Institute of Technology, Cambridge, MA 02139. Material should be received by January 15, 1991. MIT is an Equal Opportunity, Affirmative Action Employer.

ASSISTANT PROFESSOR MOLEULAR NEUROBIOLOGY

THE SALK INSTITUTE

The Salk Institute for Biological Studies invites applications for a faculty appointment in the Neurosciences. We seek candidates with research interests in the application of molecular genetics to the study of the nervous system. Current areas of research include ion channel biophysics (Chuck Stevens), neurotransmitter receptors (Steve Heinemann), vertebrate neural development (Dennis O’Leary), Drosophila neural development (John Thomas), neural induction (Chris Kintner), myelination (Greg Lemke), and visual system physiology (Charles Gray).

Interested individuals should submit a curriculum vitae, a brief statement of present and future research interests, and the names of three references to:

Molecular Neuroscience Search Committee
The Salk Institute
P.O. Box 85800
San Diego, CA 92186-5800

Equal Opportunity Employer M/F/H/V.
Public Health Service • National Institutes of Health
National Cancer Institute

A Senior Executive Service Vacancy

Associate Director
Developmental Therapeutics Program
Division of Cancer Treatment

Location: Rockville, Maryland

The Associate Director, Developmental Therapeutics Program (DTP), will be responsible for the planning, direction and implementation of a broad national and international program of drug discovery and development designed specifically to maintain a continuous flow of therapeutic agents and materials from laboratory clinics for the treatment of cancer and AIDS. The DTP is composed of three distinct segments with an annual funding level of approximately $117 million. The segments consist of a large extramural contract-based drug-development program (approximately $50 million), a grant-supported Biochemistry and Pharmacology program (approximately $60 million), and an intramural, laboratory oriented research program (approximately $7.5 million) exclusive of salaries and related fringe benefits. The DTP staff consists of approximately 275 scientific and supporting personnel.

This is a Civil Service position in the Senior Executive Service (SES) with an annual salary compensation between ES-1 through ES-4 (currently $71,200 to $79,200). In addition, physicians may be eligible for a Physician's Comparability Allowance up to $20,000 per year. (Applicants alternatively may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.) The individual selected, if not presently in SES, must serve a one-year probationary period.

Applicants must meet the minimum educational requirements for at least one of the following: Medical Officer, GS-602; Chemist, GS-1320; Microbiologist, GS-403; Pharmacologist, GS-405; Biologist GS-401; or Health Science Administrator, GS-601; as defined by the U.S. Office of Personnel Management Handbook X-118 (Qualification Standards for Positions under the General Schedule), which is available in Federal Personnel Offices. Applicants must also meet established mandatory professional/technical and managerial/executive requirements. Applicants will be further evaluated on the degree to which they possess additional desirable qualifications in the areas of professional/technical qualifications, managerial/executive qualifications, scientific reputation-peer recognition, training and education, and honors and awards. A copy of the requirements may be obtained by contacting Ms. Sue Hickman in the Personnel Management Branch, NCI, at (301) 496-8182.

Applications for Federal Employment (SF-171) are to be sent to the above individual at:

The National Cancer Institute, Personnel Management Branch
9000 Rockville Pike
Building 31, Room 3A16, Bethesda, Maryland 20892

A current curriculum vitae and bibliography must accompany all applications for entrance into the SES. Resumes are not acceptable applications for entrance into the SES. Public Health Service Commissioned Officers wishing to enter the SES must follow the above procedures. Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

Applications must be received by October 26, 1990.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.
STAFF SCIENTISTS -
NEUROPHARMACOLOGY/
NEUROBIOLOGY

REGENERON PHARMACEUTICALS, a company dedicated to developing therapeutic agents for degenerative and traumatic neurological disorders, is seeking to apply recent advances in the understanding of neuronal growth and regeneration.

REGENERON offers an exciting, collegial environment in which state-of-the-art molecular skills are brought to bear on outstanding problems in neurobiology and medicine. Key projects focus on the discovery, purification and molecular cloning of novel neurotrophic growth factors, and on the assessment of their biological roles as well as therapeutic potentials using innovative cell culture methods and animal models.

Positions in Pharmacology require a Ph.D. in Pharmacology or related discipline and a minimum of four years’ post-doctoral experience in the absorption, distribution and metabolism of drugs (preferably polypeptides and proteins). Previous experience in pharmacokinetic modeling, knowledge of protein and peptide separation techniques, and delivery of drugs to the CNS are essential. Previous industrial experience is highly desirable.

Positions presently available in Neurobiology require a working knowledge of animal models of neurodegenerative disease and trauma. Parkinson’s Diseases, Spinal Cord and PNS Trauma and Sensory and Motor Neuropathies are areas of particular interest. An M.D. or Ph.D. degree and a minimum of 3 yrs. postdoctoral experience is required.

REGENERON’s modern facility is located on a 275-acre wooded campus in Westchester County, 20 miles north of Manhattan, near major universities and medical centers. We offer excellent compensation packages, including generous stock options. Suburban Westchester features attractive and affordable housing, outstanding public schools and recreational facilities along with ready access to the culture and business centers of New York City.

Please forward your resume, in confidence to: Ms. Carol Deaken, REGENERON PHARMACEUTICALS, INC. 777 Old Saw Mill River Road Tarrytown, NY 10591-6706 Equal opportunity employer.

RESEARCH SCIENTISTS AND ASSOCIATE PHARMACOLOGY

Amgen, an innovative leader in the development of human therapeutic products through application of biotechnology, has immediate opportunities in our Pharmacology group.

RESEARCH SCIENTISTS
Dept. #548

Candidates must have a Ph.D. in Pharmacology or related discipline and a minimum of two years’ post-doctoral experience in the absorption, distribution and metabolism of drugs (preferably polypeptides and proteins). Previous experience in computerized pharmacokinetic modeling programs and knowledge of protein and peptide separation techniques are essential. Previous industrial experience is highly desirable.

RESEARCH ASSOCIATE
Dept. #547

Responsibilities include analysis of putative differentiation factors in the growth of human tumor cells in vitro and in vivo as well as participation in ongoing pharmacology research projects.

Applicants must have a BS or MS in Pharmacology or a related discipline as well as experience with in vitro and in vivo cell culture assay systems including growth and maintenance of epithelial or mesenchymal cells. Experience in immuno-histochemistry and PC-based data analysis systems is highly desirable.

Amgen offers a competitive salary and benefits package as well as a stimulating and challenging research environment on the leading edge of biopharmaceutical development. Our location, about an hour drive northwest of Los Angeles, offers the best in Southern California living in an attractive community with excellent air quality and free of traffic congestion. Qualified candidates should send a resume, in confidence, to:

AMGEN, INC.
Recruitment, Dept. # (please specify)
Amgen Center
Thousand Oaks
CA 91320-1789

Equal Opportunity Employer
Chair
Department of Biochemistry and Molecular Biology

The Medical College of Georgia invites nominations and applications for the position of Professor and Chair of a newly restructured Department of Biochemistry and Molecular Biology in the School of Medicine. We seek a leader who can further develop and maintain academic excellence for this department. The successful candidate must have:

- an established record of major research accomplishment in the application of modern approaches to any area of biochemistry, molecular biology, or cell biology relevant to human health and disease;
- the ability to attract and aid the development of first-rate faculty members; and
- a commitment to excellent medical and graduate education.

Applicants should provide a curriculum vitae, summary of professional goals, and the names of three references by Nov. 30, 1990 to:

R. W. Caldwell, Ph.D.
Biochemistry and Molecular Biology Search
Department of Pharmacology and Toxicology
Medical College of Georgia
Augusta, Georgia 30912.

Provisions of the Georgia Open Records Act apply.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR CELL BIOLOGY OR NEUROBIOLOGY

The Department of Cell Biology and Anatomy, University of Health Science and the Chicago Medical School, has positions available at the assistant or associate professor level. Preference will be given to candidates who show the ability to teach anatomy, neuroanatomy, or gross anatomy, and who possess or display the potential for developing an active, successful research program in cell biology or neuroscience. These positions will be filled by 1 March 1991. Send letter of application with curriculum vitae and the names of three references to: David McCandless, Ph.D., Department of Cell Biology and Anatomy, University of Health Science/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.

Florida International University (FIU), the State University of Florida at Miami. Tenure-track position effective August 1991 at ASSISTANT OR ASSOCIATE PROFESSOR level for a person with research interests in environmental chemistry. Position is a joint, 12-month appointment between the Department of Chemistry and the Drinking Water Research Center. Ph.D. required; postdoctoral experience desirable. Active research program expected. Teaching responsibilities at both undergraduate and graduate levels in graduate student's area of expertise. Closing date: 6 December 1990. Send curriculum vitae, transcripts, research plans, and three letters of reference to: L. Keller, Department of Chemistry, Florida International University, Miami, FL 33199. FIU is rapidly growing with over 20,000 students. A new chemistry/physics building will open in late 1990. FIU is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACEUTICAL AND/OR NUTRITION POLICY

HARVARD SCHOOL OF PUBLIC HEALTH

The Harvard School of Public Health is searching for an ASSISTANT OR ASSOCIATE PROFESSOR to teach and conduct research on fundamentally important policy questions related to pharmaceutical and/or nutrition policy. Topics of possible interest include public policy toward biotechnology, pesticides, food additives, and the safety of pharmaceuticals in special populations. The faculty appointment will be made in the Department of Health Policy and Management and/or the Department of Nutrition. The successful candidate is expected to develop projects in collaboration with faculty, fellows, and students affiliated with the Harvard Center for Risk Analysis. Minimum qualifications include (i) an M.D., J.D., or a doctoral degree in a relevant discipline such as toxicology, public policy, epidemiology, pharmacology, or risk analysis; (ii) interest in the application of science to public policy through writings and/or professional experience; and (iii) a demonstrated ability to work in an interdisciplinary environment. Knowledge of the policy-making process at the Food and Drug Administration is preferred. Women and minorities are particularly encouraged to apply. Send curriculum vitae and letter of application to:

Dr. John D. Graham
Ad Hoc Pharmaceutical-Nutrition Search
Harvard School of Public Health
677 Huntington Avenue
Boston, MA 02115

DEVELOPMENTAL NEUROSCIENTIST

The Department of Physiology and Cell Biology invites applications for a tenure-track faculty position at the rank of ASSOCIATE, OR FULL PROFESSOR to start 16 August 1991. Applicant must have a Ph.D. in neuroscience or a related field, postdoctoral experience, and research experience in development and molecular aspects of neuroscience. The successful candidate will be expected to establish an independent research program and participate in the teaching of undergraduate and graduate students. The salary will be commensurate with qualifications and experience. Applications will be reviewed starting 1 December 1990, and thereafter until the position is filled. Applicants should send curriculum vitae, an outline of current and future research plans, and the names of three references to: Dr. Jiang-Yen Wu, Professor and Chair, Department of Physiology and Cell Biology, 3038 Haworth Hall, University of Kansas, Lawrence, KS 66045. An Equal Opportunity/Affirmative Action Employer.

COX CHAIR OF ANATOMY

We are looking for an outstanding medical scientist to fill the Cox Chair of Anatomy within the recently formed Department of Anatomy. This is the oldest chair in the university. We expect the new PROFESSOR to initiate exciting research in the neurosciences, applied cell biology, or developmental biology. Cox Chair is a full-time tenured position in our highly-rated Departments of Biochemistry and Biological Sciences welcome the opportunity of collaborating with the new professor.

The professor will also be expected to stimulate, develop, and take part in the teaching of modern anatomy in all its aspects. It is not necessary for the professor to have substantial first-hand experience of the teaching of gross anatomy. He or she will, however, be responsible for the teaching and will need to be responsive to the discipline and clinical departments and to our highly-rated Departments of Biochemistry and Biological Sciences.

Application Policy: Applications are solicited from recent senior faculty members, but persons of any rank will be considered. The new chair is expected to start in the late 1990's. Applicants should send a letter of interest, a curriculum vitae, and three letters of recommendation to :

Dr. David W. Collins, Chairman
Cox Chair Search Committee
Huntington Medical School
2600 Huntington Drive
Pasadena, CA 91103

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DIRECTOR CENTER FOR CANCER TREATMENT AND RESEARCH

RICHLAND MEMORIAL HOSPITAL AND THE UNIVERSITY OF SOUTH CAROLINA

The Center for Cancer Treatment and Research invites application from and nomination of individuals who have a strong background in grant-funded clinical cancer research. This person will be responsible for the overall medical and research direction of the center program, working with a multidisciplinary university team and a community regional teaching hospital with university affiliation. Construction of a new 78-bed, free-standing building with centralized outpatient services and research laboratories due for opening in January 1991.

Interested individuals should submit their curriculum vitae and documents to: Mr. George Fant, Chairman, Search Committee, Center for Cancer Treatment and Research, Richland Medical Park, Columbia, SC 29203.

SCIENCE, VOL. 250
POSI T I O N S  O P E N

M U H L E N B E R G  C O L L E G E
E R L I N G  N.  J E N S E N  P R O F E S S O R
I N  T H E  N A T U R A L  S C I E N C E S

Spring of 1990 search reopened. Tenure-track position as a PROFESSOR of biology and HEAD of the department, effective 1991-92. Rank and salary commensurate with qualifications and experience. Requires Ph.D. in biology, a distinguished record of scholarship, and a demonstrated commitment to excellence in teaching consistent with the tradition of a liberal arts education. Preference is given to those qualified and interested in covering offerings in botany. Demonstrated leadership in curricular development in the biological sciences, the ability to nurture faculty development and research programs, and administrative desires are preferred. Muhlenberg College has a full-time enrollment of 1600 and offers 35 major programs including biology and the related health professions. Send curriculum vitae and at least three reference letters to: Chairman, Biology Search Committee, Muhlenberg College, Allentown, PA 18104, c/o Barbara Spangler. Application review begins 3 December 1990. Equal Opportunity Employer.

The Harvard School of Public Health is searching for a PROFESSOR OF POLICY AND DECISION SCIENCES in the Department of Health Policy and Management. Responsibilities include teaching in the area of policy and decision sciences and leadership of the school's program in risk analysis. The mission of these programs is to foster a reasoned and effective approach to health, safety, and environmental hazards through training, research, and public policy analysis. Candidates require: (i) doctoral degree in health policy, public policy, management science, or a related discipline; (ii) a successful record of teaching; (iii) an outstanding record of scholarship on multiple questions of health, safety, and environmental risk; (iv) a proven ability to collaborate successfully with professionals from multiple disciplines; (v) a high degree of interest in policy-relevant research; (vi) ability to communicate effectively with policy-makers in the field; and (vii) significant evidence of the leadership skills necessary to develop the program in risk analysis. Send curriculum vitae, a statement of research interests and future plans, up to four representative reprints, and the names of three references to: Professor Milton C. Weinstein, Chair, Senior Search Committee, c/o Ms. Pacheco, 677 Huntington Avenue, Boston, MA 02115.

Harvard University is committed to increasing representation of women and minority members among its faculty and particularly encourages applications from such candidates.

CHAIRMAN, DEPARTMENT OF PATHOLOGY. Indiana University seeks candidates for the tenure-track position of professor and chairman. Must be Board-certified pathologist, experienced in medical education, research, and administration. Send curriculum vitae and references to: Richard L. Schreiner, M.D., Chairman Search and Committee, Indiana University School of Medicine, Fesler Hall 302, 1120 South Drive, Indianapolis, IN 46202-5114. Affirmative Action/Equal Opportunity Employer, M/F.

CHAIR SEARCH CONTINUES

DEPARTMENT OF BOTANY
ARIZONA STATE UNIVERSITY

The search has been extended for an outstanding scientist to provide departmental leadership and promote excellence in research and teaching at Arizona State University. The Department of Botany has strong research programs, vigorous undergraduate and graduate training, and productive, collaborative relationships with other departments and research centers. Research and teaching space will double by the end of 1992 to accommodate further expansion. Applicants must have a doctorate and be tenurable at the professor rank. Preference will be given to candidates with expertise in plant ecology/environmental biology, plant molecular/cellular biology, or plant physiology. Application deadline: 30 November 1990, or the 30th day of each month thereafter until filled. Candidates should forward curriculum vitae, statement of academic and administrative philosophy, and the names, addresses, and telephone numbers of at least three references. A more complete position description is available upon request. Direct inquiries, nominations, and applications to: T. H. Nash, Chair, Botany Chair Search Committee, Arizona State University, Tempe, AZ 85287-1601. Affirmative Action/Equal Opportunity Employer.

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Research Scientists

If contributing to important Biochemical Research is what you have in mind, come to Schering-Plough Research.

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Post-Doctoral Scientist

To investigate the structure of cytokines, their receptors and related polypeptides employing heteronuclear NMR spectroscopy methods. You will present these findings at national meetings and in specialized journals. Requires a Ph.D. in Biochemistry or related discipline coupled with a background in protein chemistry, NMR spectroscopy and distance geometry methods. Experience in multi-dimensional analyses of isotopically labelled proteins and peptides would be ideal.

Principal Scientist

To lead a team of physical biochemists conducting structural research on recombinant cytokines and their receptors, and to apply these findings to the rational design of novel therapeutic agents. A Ph.D. in Biochemistry or related discipline is essential coupled with 5-8 years’ relevant post-doctoral experience. A strong background in physical and analytical protein chemistry, a good understanding of 3-dimensional protein structure, and outstanding communication skills are also required. Experience with molecular modeling of proteins/polypeptides, as well as with technologies such as multi-dimensional NMR spectroscopy that can directly define the 3-dimensional structure of proteins would be a definite plus.

Senior Scientist

To design novel therapeutic agents through structural definition of cytokines and their receptors using physical-biochemical techniques. Requires a Ph.D. in Physical Biochemistry or related field together with 2-4 years’ relevant post-doctoral experience. Special attention given to candidates with a background in characterization of protein structure and dynamics using heteronuclear NMR spectroscopy methods, or experience in structural analysis of oligosaccharides derived from proteins.

As a $3.1 billion company, we can offer a competitive salary/benefits package, and an environment encouraging professional growth. For prompt consideration, please send resume indicating position desired, to: Mr. G. Czuba, Dept. PT, Schering-Plough Research, 50 Orange Street, Bloomfield, NJ 07003. We are an equal opportunity employer.

What you have in mind, we put in action.
**Senior Research Biologist**

Glaxo Group Research has a considerable, growing commitment and research effort aimed at the discovery and development of effective new medicines for the cure of the common cancers of Man. Our innovative approach has made us leaders in the prevention of emesis associated with cancer chemotherapy and one of the world’s leading pharmaceutical research organisations.

Our Cell and Molecular Science Division is currently establishing two new research teams with the specific remit to explore new areas in the cell and molecular science of cancer. This is a major new initiative which involves investment and collaboration on an international basis. These groups will require the appointment of group leaders and the positions will provide an ideal career launch opportunity for the established scientist.

One of the teams will have a bias towards Cell Biology and will be concerned with the testing of novel chemical approaches and “cutting edge” tools, including antisense and triplex forming oligonucleotides, which will permit modification of genes and their activities. The other team will help us gain an understanding of the genetic and molecular changes which lead to the development of the common tumours in Man and thus provide novel molecular targets which will give therapeutic discrimination between normal and neoplastic tissue. Initially the work will involve development of in vitro systems which can be translated to in vivo for the study of mutations in important genes and loss of suppressor control.

The successful applicants will have had considerable involvement in the application of Molecular Biology to Biochemistry or Cell Biology, proven by experience and publication record. They will be innovative practical scientists capable of defining a research programme of work and skilled in communicating their ideas. There will be considerable liaison between the research teams and other teams in the Company and Academia. The work of the two teams is complementary and so the precise make up of the teams and team leaders will be balanced to provide a strong research group. The team leaders will be responsible for the attainment of research goals and the supervision and motivation of their teams in a stimulating and challenging research environment.

The rewards packages are outstanding and include an impressive range of benefits and, where relevant, relocation assistance.

Please send or fax full cv or telephone for an application form to Cathy Woodbine, Personnel Department, Glaxo Group Research, Greenford Road, Greenford, Middlesex UB6 0HE, England. Tel: (+44) 81 422 3434 ext. 2573. Fax (+44) 81 422 4205. Closing date: 26th October 1990.
Neurobiologists

MS/BS

Pfizer’s expanding commitment to neuroscience research has created new career opportunities at the assistant and associate scientist levels. You will be joining a multidisciplinary research team studying pharmacotherapy of mental illness and central nervous system disorders. You should possess a MS or BS degree or the equivalent in a neuroscience related field and 1-3 years of relevant experience.

Neurochemists — Openings are available for skilled neurochemists to conduct in vitro and in vivo biochemical experiments. Experience with assays of neurotransmitter function, for example, measurement of release, uptake, receptor binding, second messenger signals is required. The ability to work independently and to summarize and communicate results effectively is also expected. A working knowledge of cell culture, gel electrophoresis, western blots or enzymatic assays is desirable.

Behavioral Pharmacologist — This is an opportunity for a behavioral pharmacologist to join the multidisciplinary neuroscience research group in its effort toward novel drug development for psychotherapeutic indications. In addition to the screening of novel compounds, extensive work with the development of novel behavioral models will be involved. Experience in the following is highly desirable: animal models of psychiatric illnesses, operant conditioning paradigms, computerized data collection and statistics.

Pfizer offers a stimulating scientific research environment with the opportunity to interact with scientists from several disciplines. In addition, Pfizer has a competitive compensation/benefits package and generous relocation assistance to our southeastern Connecticut shoreline community. Please send a resume, a letter of interest describing your research experience, and names of three references to: Mr. Kym J. Goddu, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
**POSITIONS OPEN**

**CHAIRPERSON**
DEPARTMENT OF IMMUNOLOGY
AND MICROBIOLOGY
THE MEDICAL COLLEGE OF GEORGIA

The Medical College of Georgia invites applications and nominations for the position of chairperson of a newly established Department of Immunology and Microbiology. The Chairperson must have a distinguished record of achievement in research and potential or demonstrated ability for dynamic leadership with a firm commitment to faculty development and to excellence in graduate and medical education. Preference will be given to candidates with expertise in and potential to develop a research effort focused on molecular aspects of immunology and/or virology. This new department is expected to become a center of research excellence which will interact with other clinical and basic science departments. Applications and nominations should be received by the search committee before 30 November 1990, and should include both curriculum vitae and a supporting letter of intent. Provisions of the Georgia open-records act are applicable; vitae of applicants must be revealed upon request. Please address all correspondence regarding this position to:
Margaret L. Kirby, Ph.D.
Immunology and Microbiology Search Committee
Department of Anatomy
Medical College of Georgia
Augusta, GA 30912-2000

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**DIRECTORSHIP OF THE NEUROLOGY DEPARTMENT HOSPITAL FOR SPECIAL SURGERY**

The Hospital for Special Surgery (HSS) and The Department of Neurology, Cornell University Medical College (CUMC), seek candidates for the directorship of the CUMC-affiliated Neurology Program at HSS. Duties of the director will include:
- Development of clinical and/or basic research programs relevant to the HSS mission in rheumatic, orthopedic, and muscular diseases.
- An active role in graduate and postgraduate neurology training programs at CUMC.
- Ensuring the delivery of high-quality neurologic care to HSS patients.

The director will hold a tenure-level or academic-track academic appointment at CUMC in the Department of Neurology and Neurosurgery and, if appropriate, in the graduate field of neurosciences. The HSS neurology program is linked inseparably to those of the New York Hospital-Cornell Medical Center as well as to the Memorial Sloan-Kettering Cancer Center.

Please reply with a letter, curriculum vitae, and names of three references to:
Fred Plum, M.D.
Chairman, Department of Neurology
and Neurosurgery
Cornell University Medical College
1300 York Avenue
New York, NY 10021

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**PRINCIPAL SCIENTIST**

Assist the research director of the U.S. Environmental Protection Agency's long-term national ecological monitoring program. Duties include long-term strategic design and preparation of sampling materials. Candidates must have a Ph.D. or M.S. in environmental science plus 6 years of demonstrated experience in designing, implementing, and supervising research in aquatic ecosystems, preferably in a multimillion-dollar monitoring and research program. Requires an accomplished publication and presentation record, excellent interpersonal skills, self-motivation, and willingness to work extended hours and travel approximately 1 week per month. Respond with a cover letter, curriculum vitae, a summary of your experience in this position, resume, unofficial transcripts, and the names and telephone numbers of three references by 26 October 1990 to:

Susan Carey
NSI Technology Services Corp.
1600 S.W. Western Boulevard
Corvallis, OR 97333

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**BONUS CIRCULATION FOR YOUR AFRICAN AMERICAN MD**

Our issue of 16 November 1990 will be distributed to scientists attending the meeting of the American Society for Cell Biology (ASCB) in San Diego, California, 9 to 13 December 1990. Deadline for inclusion of line classified ads: 1 November 1990.

**SCIENCE Classified Advertising**
Telephone: 310-510-8655
Fax: 202-682-0816

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**ECOLOGIST**

DUKE UNIVERSITY

Applications are invited for a FACULTY POSITION in ecology in the Department of Zoology at Duke University. The appointment will begin in the fall of 1991. Screening of applicants will begin 1 November 1990. Applicants with high promise in research and teaching in the areas of animal ecology, plant ecology, or the intellectual and historical dimensions of these sciences are invited to apply. Duties will include teaching two courses per year and supervising research and teaching one research, one teaching, and one service course. University publications are expected. The University offers a competitive salary and a strong research environment. Ph.D. required; postdoctoral research experience preferred.

Please send curriculum vitae, statement of research interests, three letters of recommendation, and a list of available publications and reprints to:
Professor J. Richard Drickamer
Department of Zoology
Duke University
Durham, North Carolina 27708

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**GASTROINTESTINAL RESEARCH: INVESTIGATOR IN THE BASIC OR CLINICAL SCIENCES**

A faculty position is available for a basic or clinical investigator in the gastrointestinal sciences in a large academic Department of Gastroenterology. Applicants should possess M.D. or Ph.D. degree and have evidence of an independent program of research with extramural, peer-reviewed funding. Those with clinical training in gastroenterology can develop within this large department flexible ways whereby these skills can be maintained and utilized. Faculty ranking is also flexible, commensurate with successful applicant's experience and academic standing.

The field of study is not restricted. Current faculty have interests in basic and applied gastroenterology. Applicants with interests in function and disease, pancreatic function and disease, gastrointestinal peptides, gastrointestinal motility, epidemiology of digestive diseases, and the functional bowel diseases. Outstanding support services are available, and the opportunities for collaborative research are excellent. Applicants would be expected to be in the academic discipline of gastroenterology.

Please forward applications, including curriculum vitae, bibliography of research interests, and the names of three references, to:
John F. Phillips, M.D.
Gastroenterology Unit
Mayo Clinic
Rochester, MN 55905
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**IMMUNOCHEMISTRY**

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To work on the development of diagnostic kits for hormones, therapeutic drugs and infectious diseases. A PhD with 0-3 years experience is preferred. Disciplines sought are: Microbiology, Biochemistry, Immunology or Clinical Chemistry.

Successful candidates should be highly self-motivated and goal-oriented with strong oral and written communication skills.

We offer a competitive salary and benefit program in a professional, friendly environment. For confidential consideration, send resume and salary history to the Personnel Manager.

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Excellent Researcher/Writer needed to provide major scientific textual input and research expertise for major grant submissions; clinical research protocols; Endocrine manuscripts, articles, abstracts and other scientific reports.

This is a Senior position in the Department of Pediatrics which requires the capacity for independent thought and initiatives; the ability to handle multiple projects and meet deadlines; computer proficiency and educational background in the life sciences. Master's degree and experience in Endocrinology, Biology and/or Chemistry preferred.

Excellent benefits include immediate pension vesting, health, dental, 4 weeks vacation and tuition plan. Send resume with salary requirements to: M.N. Brown, CORNELL UNIVERSITY MEDICAL COLLEGE, 445 East 69th Street, New York, New York 10021. EEO/AA/M/F/H/V.

CORNELL UNIVERSITY MEDICAL COLLEGE

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**Collaborations Manager**

At Genentech, our success in the biotechnology industry is a result of superb personnel combined with a state-of-the-art environment. Currently, we are seeking a Collaborations Manager.

You will contribute to the identification of new research opportunities by regular meetings with Genentech research staff, attending scientific meetings, reviewing the literature and networking throughout academic and governmental organizations. Additionally, you will prepare reports and recommendations of research opportunities for staff review.

To qualify, you must have a PhD or equivalent in biological sciences and at least 3 years' postdoctoral experience. Exceptional communication skills are essential. Experience in technology transfer and computer competence are preferred.

Genentech offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For immediate consideration, please send your resume to Yvonne Davino, Dept. SK, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.
For over 30 years, Dunn Geoscience Corporation has provided comprehensive and thorough advice, guidance and quality technical assistance in addressing clients’ environmental and geotechnical issues. Under the direction of Paul E. Brubaker, Ph.D., we are aggressively expanding our Life Sciences practice. To support this effort, we are looking for the following professionals:

Manager, Toxicology & Risk Assessment

Developing/implementing human exposure risk evaluation models, health-based risk assessments, toxicological profiles and materials relative to air pollution, air permitting and workplace standards, site-specific hazardous waste regulatory actions. Requires Ph.D in Toxicology with at least 10 years related industrial or consulting experience. Therapeutic understanding with appropriate regulations. D.A.B.T. preferred. Position will play a key role in the development and growth of our toxicology practice corporate wide.

Toxicologist - Risk Assessment Specialist

Exposure risk assessment models, health-based risk assessments; coordination of various sampling efforts; remedial strategy recommendations; toxicological profiles. Requires BS in Toxicology, Biology, Environmental Chemistry or associated discipline. Minimum 5 years related industrial, consulting or governmental agency experience. Thorough knowledge of appropriate regulations.

Air Modeling Specialist

Computer air dispersion modeling of flow and emissions based on property source samples, chemical component source analyses, flow rates, barometric/meteorological data. Requires BS/MS in Chemical/Environmental Engineering, Meteorology or associated discipline. Minimum 5 years related industrial, consulting or governmental agency experience. Thorough knowledge of appropriate regulations.

The University of Illinois is an Affirmative Action, Equal Opportunity Employer.

EXECUTIVE DIRECTOR: Dunn Geoscience Corporation, Corporate Headquarters, 12 Metro Park Road, Albany, NY 12205

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**DIRECTOR OF BIOPOLYMER FACILITY**

Roswell Park Cancer Institute is seeking a Director of the Biopolymer Facility with a Ph.D. in biochemistry, molecular biology, cell biology, or a related area with training and experience in analytical and protein chemistry. The laboratory director will be responsible for directing the operation of the Biopolymer Facility. The Institute is a NCI designated comprehensive cancer center and this core facility supports research for over 200 Roswell Park staff members in the biological and physical sciences. The principal services of the laboratory are oligonucleotide synthesis, peptide synthesis, protein sequencing, amino acid analysis and PCR. The Biopolymer Facility is well equipped with modern instrumentation and has assigned two full-time technicians. The director will have opportunities for interactive participation in research projects and in shaping the future growth of the facility. He/she is expected to develop an active research program. Send resume, and names and addresses of three references to:

Richard Swank, Ph.D.
Department of Molecular and Cellular Biology
Roswell Park Cancer Institute
Elm & Carlton Streets, Buffalo, NY 14263.

**INSTITUTE OF HUMAN GENETICS**

The Institute of Human Genetics at the University of Minnesota will be hiring faculty at the rank of Professor (tenured), or Associate Professor (tenured), or Assistant Professor (tenure-track) in the area of higher eukaryotic molecular genetics. Although all areas of eukaryotic molecular genetics will be considered, there is a particular interest in expanding developmental and cancer genetics. Candidates will be expected to develop a vigorous, independent research program that complements the research being conducted by other University faculty and leads to external funding, participate in teaching and advising, and interact with other members of the Institute in its development and programs.

Candidates at the Assistant Professor level will have a doctoral degree (M.D. or Ph.D.), at least 2 years of relevant postdoctoral experience, and demonstrated productivity in quality research accepted or published in peer-reviewed journals. Candidates at the Associate Professor level will have a doctoral degree, at least 5 years of professional experience beyond the degree, distinction in funded research and writing, and demonstrated effectiveness in teaching and advising. Candidates at the Professor level will have a doctoral degree, at least 8 years of professional experience beyond the degree, a national reputation in funded research and writing, and demonstrated effectiveness in teaching and advising. Salary and rank will be commensurate with education and experience, and tenure will be granted in the appropriate University department.

Please send a current curriculum vitae, a brief description of current and future research interests, and 3 letters of recommendation to:

Chair, Search Committee
University of Minnesota Medical School
Institute of Human Genetics
Box 206 UHIC
Harvard Street at East River Road
Minneapolis, MN 55455

The last date for receipt of applications is 06/30/91, with review, consideration, and selection beginning 12/31/90.

The University of Minnesota is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities.

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**HEAL Immunology Subdivision**

If you have energy, drive and commitment, you may be exactly who we're looking for to lead a team of 17 scientists in the challenging field of autoimmunity research. Specifically, you will be responsible for coordinating the research and drug discovery activities of Senior Scientists and staff in the area of immunosuppression and autoimmunity. Ideally, you will possess the scientific acumen and experience to capitalize and enhance therapeutic opportunities as well as to develop the next generation of immunosuppressive agents to rapamycin. Your background must include a doctoral level degree with a minimum of 7 years post doctoral immunological experience.

Wyeth-Ayerst offers an excellent compensation and benefits package plus opportunities for career advancement. Please forward your resume with salary requirements to: **WYETH-AYERST RESEARCH, Personnel Manager, CN 8000, Princeton, NJ 08543-8000. An Equal Opportunity Employer,** M/F/H/V.

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**CLINICAL RESEARCH ASSOCIATE**

Schering-Plough HealthCare Products is a $670 million division of Schering-Plough Corporation and one of the top five healthcare products companies in the U.S. We are currently looking for a Clinical Research Associate based in our Memphis, Tennessee facility.

Responsibilities will include developing protocols; planning, placing and monitoring clinical studies; conducting literature reviews; preparing and presenting scientific and medical data on Schering-Plough HealthCare Products and concepts; and responding to medical inquiries.

Qualified candidates will possess a PhD in Pharmacology, Physiology or related discipline. Thorough knowledge of all phases of clinical studies, including protocol design, placement and monitoring of studies, statistical analysis and report preparation and presentation are required. Two to five years clinical research experience is required with OTC Pharmaceutical experience desired. Excellent verbal and written communication skills are a must.

We offer a competitive salary and an excellent benefits package. Please send your resume including salary history and requirements, in confidence to: **Schering-Plough HealthCare Products, Dept. ASI012, 3030 Jackson Ave., Memphis, TN 38151. An Equal Opportunity Employer, M/F/H/V.**
BIOCHEMISTRY FACULTY POSITION

West Virginia University invites applications for a tenure-track position in the Department of Biochemistry at the ASSISTANT PROFESSOR level with research interests in the regulation of intermediary metabolism. Applicants should have a doctoral degree in biochemistry or related field. Teaching experience and/or established research productivity; the successful applicant will also teach general biochemistry to professional and graduate students. Applicants should submit curriculum vitae including complete bibliography, a brief statement of research interests, and the names and addresses of three persons who will provide letters of reference, if requested, to: George H. Wirtz, Department of Biochemistry, West Virginia University Health Sciences Center, Morgantown, WV 26506. Review of applications will begin 1 November 1990 and will continue until the position is filled. Equal Opportunity Employer.

UNIVERSITY OF CALIFORNIA SAN DIEGO (UCSD)

Applications are invited for two in residence FACUL TY POSITIONS in the Department of Ophthalmology. Candidates apply for tenure-track positions in strong research and teaching program in molecular, cell, neuro or vascular biology. Will join multidisciplinary group of scientists at the UCSD School of Medicine investigating glaucoma and visual blindness. The department is opening a new Eye Institute with modern laboratory facilities. Please send curriculum vitae, statement of research interests, and three letters of recommendation to: University of California, San Diego, Dr. Robert N. Weinreb, Department of Ophthalmology, 9814, 9500 Gilman Drive, UCSD is an Equal Opportunity/Affirmative Action Employer. Final filing date: 1 November 1990.

DEPARTMENT OF BIOCHEMISTRY THE UNIVERSITY OF ARIZONA FACULTY POSITION

Applications are invited for a tenure-track ASSISTANT PROFESSOR position. Candidates should have a doctoral degree, significant postdoctoral research experience, a strong record of research accomplishment, and should have demonstrated potential for the development of an independent academic research career. We are seeking an outstanding individual with research interests in any area of biochemistry, biophysics, or molecular biology. Applications should include curriculum vitae, a list of publications, and a summary of current research activities and future plans. The applicant should arrange for at least three letters of reference to be forwarded. Review of applications will begin 1 December 1990, and will remain open until filled. Women and minorities are urged to apply. Please send applications or nominations to: Louise M. Canfield, Chair, Search Committee, Department of Biochemistry, Biosciences West, The University of Arizona, Tucson, AZ 85721. An Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.

FACULTY POSITIONS SECTION OF IMMUNOBIOLOGY YALE UNIVERSITY

The Section of Immunobiology seeks applicants for several faculty positions at the level of ASSISTANT PROFESSOR. Qualified applicants in all areas of mammalian gene expression, signal transduction, and lymphocyte cell biology are invited to apply. We are particularly interested in candidates in the areas of transcriptional regulation, signal transduction, protein sorting, and antigen presentation using cell biological approaches. Candidates would be expected to develop an independent, funded research program to participate in departmental teaching. Candidates should submit curriculum vitae with a summary of present and future research interests, and request that three letters of recommendation be sent by 5 January 1991 to: William F. Ahernbruck, Chairman, Department of Immunobiology Yale University School of Medicine 310 Cedar Street, 424 FMB P.O. Box 3331 New Haven, CT 06510 An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

NEUROBIOLOGIST

A tenure-track FACULTY POSITION at any rank is available starting September 1991 for a neurobiologist with a vigorous research program who can interact with colleagues who use developmental, electrophysiological, and molecular approaches to neurobiology. The Biology Department, City College, City University of New York (CUNY), includes 34 faculty and 35 doctoral students. The candidate will join an NIH-sponsored research center in cell and molecular biology involving 25 faculty from several departments and will participate in teaching undergraduate and graduate courses. Interested candidates should send curriculum vitae, a research summary, and the names and addresses of three references to: Josh Wachtman, Chair, Neurobiology Search Committee, Department of Biology, City College, CUNY, New York, NY 10031. Applications received by 1 December 1990 will be assured consideration. Equal Opportunity Employer.

CANCER GENETICS FACULTY POSITIONS

Faculty positions are available in genetic and/or molecular epidemiology, molecular oncology, and genetics of human cancer. The basic, clinical, and population aspects of cancer research are expanding in the University of Iowa. Faculty members will participate in the expanding area of cancer genetic epidemiology. The University is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF BIOLOGY THE UNIVERSITY OF IOWA FACULTY POSITION

Applications are invited for a tenure-track assistant professor position. The successful applicant will be expected to develop a vigorous, independent research program that will contribute to teaching and research in the area of molecular oncology. The candidate should have a strong background in genetics and cell biology. The University is an Equal Opportunity/Affirmative Action Employer. Applications should be sent as soon as possible to: Dr. Dean R. J. Hendriks, Chairman, Molecular Oncology Search Committee, Iowa City Cancer Center, 455 NW McNamar, Iowa City, IA 52242. The University is an Equal Opportunity/Affirmative Action Employer.

PLANT EVOLUTIONARY BIOLOGY INDIANA UNIVERSITY, BLOOMINGTON

The Department of Biology is searching for a new FACULTY MEMBER to do research in the area of plant evolutionary biology. Candidates should employ any approach, from ecological to molecular, as long as their central focus is the study of mechanisms at the organismal, population, or species level. The successful candidate will be expected to conduct a vigorous, independent research program and contribute to teaching. Applications should be sent to: Dr. Robert J. Hartman, Department of Biology, Indiana University, Bloomington, IN 47405. Applications received by 15 December 1990 will be assured consideration. Indiana University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN ORGANIC CHEMISTRY AT Iowa State University

Applications are invited for this position available in the organic chemistry department starting with the fall semester, 1991. All research areas in organic chemistry, very broadly defined, will receive consideration. The appointment likely will be at the ASSISTANT PROFESSOR level; however, applications at all levels will be considered. The successful candidate will be expected to develop and maintain a program of research appropriate to the level of appointment. The University is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF CALIFORNIA, IRVINE

The Student Recommended Faculty Program (SRFP) seeks a LEADER for a 1-year appointment for the academic year 1991–92 to teach undergraduate courses in molecular and structural biology and research design, and to participate in educational and research programming. Interested candidates should submit curriculum vitae, teaching experience, and three letters of recommendation to: Barbara L. Ochs, Assistant Vice Chancellor for Faculty Affairs, University of California, Irvine, CA 92717. Equal Opportunity/Affirmative Action Employer. Deadline: 15 December 1990.
For more than a century the employees of Burroughs Wellcome Co. have applied their talents to the discovery and development of important new medicines. Their abilities and initiative have brought our company preeminence in both the pharmaceutical industry and the scientific world...as our 1988 Nobel Prize winners give eloquent testimony.

GREAT PEOPLE MAKE A GREAT COMPANY

The Wellcome Research Laboratories has the following opportunities immediately available in the Division of Pharmacology.

**Inflammation Research Pharmacologist**

(Positions #61197-4) To provide leadership and direction to a pharmacology laboratory involved in the use of *in vivo* and *in vitro* models for the purpose of discovering and developing novel therapeutic agents effective in inflammation and/or in blocking cell adhesion.

Candidates must have a Ph.D. in pharmacology, biochemistry, biochemical pharmacology, immunology or other related science plus two years of postdoctoral experience or two years of experience in inflammation research. Experience is needed in common laboratory techniques used in the inflammation research field (e.g. *in vivo* models of the pathophysiology of inflammation, *in vitro* biochemical methodology such as relevant binding assay, tissue culture, etc.). Publications demonstrating experience with "state-of-the-art" techniques and theory to do innovative research and drug development in the field of anti-inflammatory research are required. Other factors to be considered include: experience in arthritis, asthma, autoimmune, and/or other inflammatory diseases, *in vitro* models of inflammation, and analgesia.

**Neuroscience Research Pharmacologist**

(Positions #62276-4) To conduct basic and applied research in experimental neurology with emphasis on developing animal models of neurodegenerative disorders, neural plasticity, and related cognitive functions.

Candidates must have an M.D. or a Ph.D. in pharmacology, physiology, or neurosciences plus two years of postdoctoral training or two years of research experience studying *in vivo* models of neurodegenerative disorders, neural plasticity, and related functions. Other factors to be considered include: publications that demonstrate expertise in models of focal ischemia; histology experience; and experience determining methods of assessing functional consequences of brain damage.

**Respiratory Senior Associate Pharmacologist**

(Positions #62307-4) To initiate and conduct independent research directed towards the discovery and development of novel anti-asthmatic agents.

Candidates must have Ph.D. in a biological science. Other factors to be considered include: skills and experience in respiratory research (*in vivo* and/or *in vitro*), pharmacology, immunology, immunopharmacology and histology. Knowledge of and interest in pulmonary diseases. Experience with laboratory techniques for evaluating the role of cytokines and cell adhesion processes in allergy.

As a valued professional at Burroughs Wellcome Co. you will receive a salary commensurate with your experience and be supported by the highest level of benefits in our industry. If you are interested in working for us, submit your resume, indicating position number in your cover letter, by November 26, 1990 to: Burroughs Wellcome Co., Scientific Recruiting and Staffing, 3030 Comwallis Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919)248-8347 in Research Triangle Park, NC or (919)830-2997 in Greenville, NC.

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An Equal Opportunity Employer
The Art of Discovery.

Syntex has discovered, developed and marketed a number of successful new products that testify to our commitment to basic and applied research. We continue to develop innovative new therapies for today's complex medical problems, and rely on research that combines the vision of a talented scientific team with state-of-the-art drug discovery and evaluation techniques. Toward this end, we devote 30% of our staff and 18% of our profits to R&D.

The following exciting career challenges await talented, energetic and motivated scientists at our headquarters and main research facility in the San Francisco Bay Area.

Neuropharmacologist
Establish and conduct behavioral models of neurological disorders. A PhD in Neuropharmacology, with an emphasis on behavioral pharmacology, 1-2 years of postdoctoral experience and familiarity with behavioral models of learning and memory, anxiety and psychosis are required.

Biochemical Pharmacologist
Provide expertise in radioligand binding technology, computation of data and receptor biochemistry. Experience in neurotransmitter release and other biochemical/functional assays in brain slices and cultured systems is preferred. A PhD in Neuroscience with 2 years of postdoctoral experience is required.

Biochemist/Neurobiologist
Operate in a multidisciplinary team environment where your main focus will be on the development, implementation and application of bioassays and immunoassays in support of the research and development of nerve growth factor and other neurotropic growth factors. The position requires a PhD in Biochemistry/Neurobiology with at least 1 year of postdoctoral experience in the use and development of bioassays/RIA/ELISA.

Electrophysiologist
Contribute to the study and discovery of novel CNS and peripherally acting drugs and play a key role in the elucidation of mechanisms of action of novel neurotransmitter receptors. The position requires a PhD in Physiology, Pharmacology or Neuroscience and at least 1 year of postdoctoral experience. A background in the use of in vivo and in vitro methods of recording drug action on neuronal activity would be an advantage.

Syntex will be a participant in the Society of Neuroscience meeting in St. Louis, and would welcome the opportunity to discuss career opportunities during the conference. We offer competitive compensation and relocation including an incentive bonus. For prompt consideration, please send your resume to: Syntex Professional Staffing, Dept. KH/SC, 3401 Hillview Ave., Palo Alto, CA 94303. We are an equal opportunity employer.
Molecular Genetics Faculty Positions

The Department of Molecular Genetics of The Ohio State University is initiating a search to fill three tenure track positions. It is anticipated that one of these positions will be shared with the Ohio State Biotechnology Center. These positions may be filled at the Assistant Professor level or at more advanced levels. We are particularly interested in applicants with research interests in molecular genetic studies of major topics in molecular, cell, developmental biology, or neurobiology using experimental systems such as yeast, Drosophila, Caenorhabditis, Mus, and humans. However, highly qualified applicants with other research specialties within the broader mandate of our unit will also be considered seriously. A highly competitive recruiting package is available, including an attractive (hard money) salary, generous laboratory space, substantial funds for equipment purchase and funds for initial operating expenses, independent of extramural grant support. The Department and The Ohio State University are in the process of a major expansion in Molecular Biology and Biotechnology, and a substantial number of additional positions are anticipated in the future. Women and members of minority groups are enthusiastically encouraged to apply.

The Ohio State University is the flagship institution of the state’s higher education system. It is located in the state capital, Columbus, which is a growing, yet highly affordable, metropolitan area of about 1.3 million people. Columbus has been ranked by Newsweek as one of the country’s best places to live and work.

Applications should include a detailed curriculum vitae, a description of research experience, a statement of the nature of the planned independent research program, and the name, address and telephone number of each of four scientists who have agreed to serve as references. Applications will be accepted until suitable candidates are hired but recruiting is scheduled to begin in earnest by November 1990. Information about our Department can be obtained by calling our offices at 614-292-8084.

THE OHIO STATE UNIVERSITY

CAREER OPPORTUNITIES IN PLANT MOLECULAR GENETICS

DEKALB Plant Genetics, a leading agricultural seed company, is expanding its research program in maize biotechnology. We seek innovative plant molecular biologists at Ph.D., M.S. and B.S. levels to join our multidisciplinary team at the forefront of gene mapping in maize. This research team is identifying quantitative trait loci in maize using restriction fragment length polymorphisms and applying this information to our maize breeding research programs.

We seek creative and motivated scientists to join the existing program and take the lead in developing alternative methods for gene mapping. The successful candidates will work in a team oriented atmosphere and will interact with gene tagging, trait identification and genetic transformation programs.

In addition to a stimulating scientific environment, we offer excellent salary and benefit packages and relocation assistance to an attractive southeastern Connecticut shore community. Qualified applicants should submit their resume and the names, addresses and phone numbers of three professional references to: Ms. Dianne Dellarco, DEKALB Plant Genetics, Eastern Point Road, Groton, CT 06340.

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At Becton Dickinson, World Health Is A Lifetime Occupation.

For generations, we've been helping the world face some of its toughest medical challenges. And that's created some of the most challenging careers for scientists anywhere. We're Becton Dickinson, and in our Research Center, we're involved in scientific exploration and experimentation in its purest form.

The knowledge we gain paves the way for the development of innovative diagnostic and surgical technology, to produce the kind of equipment and supplies that change lives—and there's no more worthwhile way to make your livelihood.

Prenatal Genetic Disease Diagnosis Self-Directed Work Team

These positions will be part of a new project in Genetic Disease Diagnostics.

Scientist

You will be responsible for design, synthesis and purification of standard and novel labeling reagents for in situ nucleic acid probe assays, including developing methods for and participating in the evaluation of these reagents for use in assays; Ph.D. in Organic Chemistry, Biochemistry or Nucleic Acid Chemistry and 2 years' postdoctoral experience in the use of nucleic acid probes is required. Detailed knowledge of chemistry of nucleic acids is also necessary, as well as a working knowledge of hybridization and fluorescence detection systems.

Research Associate

This position will be responsible for designing and performing experiments using nucleic acid hybridization for trisomy detection, including preparing materials such as labeled oligonucleotides and DNA from chromosome libraries, for use in specific hybridization detection and developing rapid and simple hybridization conditions and specimen preparation for specific DNA detection. M.S./B.S. in Biology or Chemistry is required as well as 1 4 years' experience in immunoassay/DNA hybridization assay development or molecular biology. Experience in a cytogenetics lab with classical karyotyping preferred.

Research Assistant

This position is responsible for the development and standardization of in situ hybridization assays for chromosome specific probes. Emphasis on experimental protocol development with the ability to implement such protocols is necessary. B.S. in Biology, Chemistry or Medical Technology is required, as well as 2 years' experience in immunoassay systems, biochemistry, molecular biology or genetics test design. Experience in a cytogenetics lab with classical karyotyping is preferred.

At Becton Dickinson, you'll earn a generous salary and benefits package, while contributing to the future of world health. Please send your resume to: Becton Dickinson & Company Research Center, 21 Davis Drive, Research Triangle Park, NC 27709. AA/EOE Employer.
POSITIONS OPEN

FACULTY POSITIONS IN BIOLOGICAL SCIENCES
UNIVERSITY IN THE CITY OF NEW YORK

The Department of Biological Sciences of Columbia University invites applications for two faculty positions at the ASSISTANT PROFESSOR level. Outstanding applicants in the general areas of developmental, cellular, or molecular biology or biochemistry will be considered. Applicants should have a Ph.D. and have completed postdoctoral training. The successful applicant will be expected to initiate or continue an extramurally funded research program and be committed to teaching undergraduate and graduate students. In addition to courses in their own discipline, the successful applicant will teach in a general biology program. A description of current research activities is available from Dr. James Manley or Dr. Darcy Kelley, Faculty Search Committee, Department of Biological Sciences, 600 Sherman Fairchild Center, Columbia University, New York, NY 10027.

Columbia University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION, ORGANIC CHEMISTRY. Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level beginning fall 1991 in the Department of Chemistry at Connecticut College. The department offers an ACS-certified major in chemistry and also awards the B.A. degree in biochemistry. Excellent teaching and research equipment is available, including high-field NMR. The primary teaching responsibilities include organic chemistry lecture and laboratory. The successful candidate will be expected to develop an active research program in which undergraduates can participate. Applicants must have a Ph.D. degree. Postdoctoral experience is preferred, but not required. Connecticut College is a selective, coeducational, private liberal arts college in New London, Connecticut. Faculty normally teach five courses a year. Laboratory sections are equivalent to courses. Untenured faculty on full-time appointments receive funding for a summer of research and other forms of research support. Tenured faculty receive 80% of salary during a sabbatical year. Connecticut College is an Affirmative Action/Equal Opportunity Educator and Employer and encourages applications from minorities and women. Interested individuals should send curriculum vitae, graduate transcripts, brief statement of research plans, and three letters of recommendation to: 26 November 1990 to: Professor Bruce R. Branchini, Connecticut College, Department of Chemistry, New London, CT 06320.

ACADEMIC NEUROLOGIST

The Hospital for Special Surgery and the Department of Neurology of Cornell University Medical College, seek an academic neurologist with expertise in clinical electrophysiology for a tenure-track position in the Department of Neurology and Neuroscience of Cornell Medical College. The candidate's clinical responsibilities will include electromyographic and related studies at the Hospital for Special Surgery (HSS) and the New York Hospital (NYH). The candidate will be involved in the teaching of medical students, residents, and fellows and will be expected to initiate and develop a program of clinical and basic research appropriate to the unique clinical resources of HSS.

Please reply with a letter, curriculum vitae, and names of three references to:

Fred Plum, M.D.
Chairman, Department of Neurology and Neuroscience
Cornell University Medical College
1300 York Avenue
New York, NY 10021

Equal Opportunity/Affirmative Action Employer, M/F/V/H.

NEUROSCIENTISTS

Two neuroscientists (neurochemistry and neuroimmunology) positions are available to join a team studying the mechanism of drug action for Parkinson's and other neurodegenerative disorders. Excellent salary, benefits, workplace. Brown University area. Send curriculum vitae and three references to: Dr. Paul R. Sanberg, Cellular Transplantation Lab, 1626 Pharmaceutical Road, Providence, RI 02906. FAX: 401-272-3485. No calls, please.

330

POSITIONS OPEN

FACULTY POSITIONS IN MOLECULAR BIOLOGY AND MOLECULAR PHARMACOLOGY

The Department of Pharmacology and Molecular Biology at The Chicago Medical School is initiating the third phase of faculty recruitment for tenure-track positions at all levels. Preference will be given to applicants with research interests in the area of pharmacology and/or its application to disease. The Chicago Medical School is an independent, not-for-profit, graduate and professional school of health professions located on a 333-acre campus in Garnett, Illinois. The department of Pharmacology and Molecular Biology is small and highly collaborative, with ongoing programs of research in Molecular Biology, Molecular Pharmacology, Developmental Biology, and Toxicology. The successful candidate will be expected to initiate an extramurally funded research program and to participate in teaching at the graduate and postdoctoral levels. Preference will be given to candidates with a Ph.D. or M.D., who have demonstrated a capacity for independent research and who can contribute to the educational programs at the department level. Interested applicants should send curriculum vitae, three letters of recommendation, and a statement of research interests to: Dr. George D. Lesch, Chairman, Department of Pharmacology and Molecular Biology, The Chicago Medical School, 8250 North grabs, Chicago, Illinois 60064. The Chicago Medical School is an Affirmative Action/Equal Opportunity Employer.

BIOLIGIST. Specializing in the ecological aspects of global change. We seek an ecologist, preferably whose major interest is in global change. Rank of the position is open and salary will be commensurate with experience and qualifications. We welcome applicants with any organismal specialty, empirical or theoretical approaches, and marine, freshwater, or terrestrial research programs. In addition to the research opportunities in the Department of Ecology and Evolution, the State University of New York (SUNY) at Stony Brook has related research programs in the Institute for Atmospheric Sciences, the anthropology program, and the Marine Science Research Center. Teaching will involve an undergraduate course in global ecology and a graduate course in the candidate's specialty. Please submit curriculum vitae, a short statement of research and teaching interests, and three letters of recommendations. Reprints should not be submitted with the initial application. All application materials should be received by 1 December 1990 and be addressed to: Dr. Barbara L. Bentley, Chairperson, Ecology Search Committee, Department of Ecology and Evolution, SUNY Stony Brook, Stony Brook, New York 11794-5245. SUNY Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer. AK 165.

POSTDOCTORAL POSITION

BROWN UNIVERSITY

Position available for individual interested in areas of protein structure-function, gene structure and regulation, protein-nucleic acid interactions, or molecular mechanisms of recombination. Previous experience with in vitro systems (or desire to learn), nuclear acid biochemistry, DNA cloning, genetics, or in vitro systems. Please send resume with desired starting date and list of three references to: Arthur Landy, Division of Biology and Medicine, Brown University, Providence, RI 02912. An Equal Opportunity/Affirmative Action Employer.

STANFORD UNIVERSITY

POSTDOCTORAL POSITIONS IN CELL AND MOLECULAR BIOLOGY OF MEMBRANES

Postdoctoral positions are available immediately in an interdisciplinary program at Stanford University. Applications are solicited from individuals with the Ph.D. or M.D. degree in training in biochemistry or cell or molecular biology. Current research areas and principal investigators include: protein and lipid traffic between malaria parasites and host membranes (K. Haldar); molecular biology of membrane transport, membrane-association and protein expression (K. R. Kopito); protein sorting in regulated secretory cells, organelle biogenesis (A. W. Sweeney); cell polarity, membrane-cytoskeleton interactions (W. J. Nelson); and ion channels, ER, lipid trafficking, cholesterol metabolism (R. D. Simon). Interested candidates should send a letter summarizing their research experience and interests, curriculum vitae, and the names and addresses of three references to: Program in Cell and Molecular Biology of Membranes, Department of Biological Sciences, Stanford University, Stanford, CA 94305-3020.

An Equal Opportunity Employer.

CHAIRMAN

DEPARTMENT OF PATHOLOGY

Roswell Park Cancer Institute is seeking a Chairman for the Department of Pathology. This internationally-renowned cancer center is currently entering a period of renewed growth and opportunity for research and academic activity is outstanding. Substantial academic credentials and an interest in research are highly desired. A faculty appointment will be at the School of Medicine and Biomedical Sciences, SUNY at Buffalo, according to the level of professional qualifications.

Curriculum vitae should be sent to:

Joseph Sweeney, M.D.
Chairman, Search Committee
Department of Laboratory Medicine
Roswell Park Cancer Institute
Eim and Carlton Streets
Buffalo, New York 14263

Roswell Park is an Equal Opportunity/Affirmative Action Employer.

Cytomed, Inc., an early stage development company committed to developing diagnostic and therapeutic agents for hematopoietic research and clinical therapies is seeking dedicated investigators (Ph.D. M.S., B.S.) and product development scientists in the following disciplines.

CELL BIOLOGISTS

To investigate the growth, differentiation, and microenvironmen of hematopoietic cells. A strong background in the hematopoietic system is required. Experience with novel cell culture systems, flow cytometry and immuno- nology is highly desirable.

MOLECULAR BIOLOGISTS

To develop the expression systems for protein production.

ASSAY DEVELOPMENT SCIENTISTS

To develop innovative culture assays and immunosassays related to bone marrow cells. Experience with diagnostic product development is highly desirable.

Cytomed, Inc., located in a state-of-the-art facility within suburban Boston, offers competitive compensation, a comprehensive benefits package and an excellent work environment. Interested candidates should send resume to: Human Resources, Cytomed, Inc., One Mountain Road, Framingham, MA 01701.
Postdoctoral Opportunities

Lederle-Praxis Biologicals, a business unit of American Cyanamid Co., is recognized internationally as a leader in the research, development and manufacture of vaccines for the prevention of viral and bacterial disease. Currently, the Department of Viral Vaccine Research and Development is seeking an energetic and talented individual to work as an integral member of a multi-faceted scientific team.

Projects will involve analysis of host immune responses to viral antigens, both in vitro and in vivo. Studies will primarily focus upon the identification and characterization of cellular and humoral correlates of vaccine-mediated protection. There will also be extensive interaction with our protein chemistry, molecular biology and cell biology groups in the context of the development and immunological evaluation of recombinant and natural viral vaccine candidates.

The individual we seek will be a recent graduate of a Ph.D. degree program in Immunology. Hands-on experience in cellular immunology, virology and cell culture is desirable.

We offer an excellent salary and benefits package, including a 401K savings plan, and a convenient Rockland County location 25 miles north of New York City. If you're ready to make a contribution to a challenging program, send your resume to: Dan Nemetz, Professional Employment Representative, Lederle Laboratories, Pearl River, NY 10965. We are an equal opportunity employer.

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Commitment Leads To Discoveries...

Baxter Healthcare Corporation’s Fenwal Division is committed for one simple reason. We know that the discoveries we make in our R&D Department today will save lives tomorrow. Our commitment has led to the expansion of both our Cellular Immunotherapy and Bone Marrow Transplantation Groups at our new Irvine, California Facility. We are looking for individuals at both the Ph.D. and technical level with several years relevant experience in the following areas of investigation:

**Molecular Biology:** Generation of recombinant antibodies reacting with a wide variety of products including T cell antigens identified by molecular cloning.

**Molecular Biology:** Application of PCR technology to the analysis of T cell subsets associated with certain autoimmune and neoplastic disorders.

**Cellular Immunology:** Functional characterization of T cell subsets as assessed by antigen specificity, expression of specific T cell markers, and lymphokine secretion.

**Hematopoiesis:** Analysis of human stem cell differentiation antigens and assessment of stem cell function to aid in development of new stem cell isolation products.

We offer an excellent salary and benefits package, as well as the opportunity to grow with a leader. To apply, send a resume to: Baxter Healthcare Corporation, Fenwal Division, Attn: Human Resources, 2807 Catherine Way, Santa Ana, CA 92705. An Equal Opportunity Employer M/F/H/V.

Fenwal Division

Baxter
The Samuel Roberts Noble Foundation

POSITIONS IN PLANT MOLECULAR BIOLOGY/VIROLOGY

We are seeking applicants for the following positions in the Plant Biology Division:

STAFF SCIENTIST
(Equivalent to Assistant Professor) (Applied Molecular Biology Group). Applicants must have two or more years of postdoctoral training in molecular biology and experience in molecular virology. The successful applicant will spend the majority of time (~80%) on independently derived or driven plant virological research. A small percentage of time (~20%) will be directed toward attaining research goals within the applied group. Closing date for applications is December 1, 1990.

POSTDOCTORAL POSITIONS
(Molecular Plant Pathology and Plant Cell Biology Groups). One position is available immediately to work on signal transduction pathways involved in regulating the activity of 3-hydroxy-3-methylglutaryl coenzyme A reductase in potato. Preference will be given to candidates with experience in plant protein purification and molecular biology. Other positions will become available from November 1, 1990 through mid-1991, in the following areas: analysis of plant defense gene promoters for cis-elements and trans-factors conditioning tissue-specific and pathogen-induced expression; manipulation of defense genes in transgenic alfalfa; expression of metallothionein genes in transgenic plants. We are seeking highly motivated individuals with suitable experience in molecular biology and/or biochemistry.

RESEARCH TECHNICIAN
(Molecular Plant Pathology Group). Available November 1. To join a group studying regulation of plant defense gene transcription factors. Candidates should hold a degree in biochemistry, molecular biology or a related biological science.

To apply, submit curriculum vitae, statement of research interest and names of three referees to:
Dr. Richard S. Nelson (Staff Scientist position) or Dr. Richard A. Dixon (for Postdoctoral, Technician), Plant Biology Division, The Samuel Roberts Noble Foundation, P.O. Box 2180, Ardmore, OK 73402. Phone 405-221-7360.

Research

SR. PROJECT LEADER IMMUNOLOGY

Discovery is a Major Endeavor...

... of Kallestad Diagnostics, Inc., a subsidiary of Sanofi, Inc., a world leader in the production of comprehensive medical diagnostic systems for allergy, autoimmune, infectious disease and immunology. An exciting opportunity exists at our location in Minneapolis/St. Paul, headquarters of Sanofi Diagnostics, Western Zone.

We seek a scientist with 4 or more years of academic, clinical laboratory, or industrial experience, for one of our R & D teams. In this position, you will develop new products and enhance existing products through application of new technologies. Strong analytical, research and problem solving skills are essential. Demonstrated expertise in cellular immunology is a requisite. An advanced degree in Immunology, Microbiology or Molecular Biology is required.

The Minneapolis/St. Paul area is a center for the medical products industry and provides an outstanding quality of living. We offer an excellent salary, relocation and benefits package. For prompt, confidential consideration, please submit your resume in confidence to: D. Baxter, KALLESTAD DIAGNOSTICS, INC., 1000 Lake Hazeltine Drive, Chaska, MN 55318. Equal Opportunity/Affirmative Action Employer.

Kallestad

DIAGNOSTICS, INC.

RESEARCH OPPORTUNITIES

MedImmune, Inc. a dynamic biotechnology company in the Washington, DC area, is committed to the discovery and application of novel molecular and immunologic approaches toward the development of vaccines and therapeutic agents for infectious diseases. Our expanding activities have created several openings for individuals with Ph.D., M.S., and B.S. degrees to work in the following areas:

* Prokaryotic Molecular Biology
* Protein Expression & Secretion in Bacteria
* Cellular Immunology
* Intracellular Bacteria / Host Cell Interaction

Successful candidates will have substantial research experience with pathogenic bacteria or viruses and a demonstrable record of scientific productivity. MedImmune offers competitive salaries, an excellent benefits package and a unique opportunity for professional growth. Applicants should submit their resume for prompt, confidential consideration to:

MedImmune, Inc.
Human Resources
19 Firstfield Road
Gaithersburg, MD 20878

MedImmune, Inc.
formerly Molecular Vaccines
An Equal Opportunity Employer

PROTEIN RESEARCH

SLOAN-KETTERING INSTITUTE

Applications are invited for several positions in the newly established Protein Center at Sloan-Kettering Institute:

* Postdoctoral Research Fellow (recent Ph.D.) or Senior Research Scientist (Ph.D. and 3 years experience) to develop chemistries, instrumentation and methods for sub-picomole isolation and sequencing of proteins. Candidates with background in MS are especially encouraged to apply.
* Ph.D. in biochemistry (or equivalent experience) to operate and improve automated protein sequencers, conduct research in micro-sample handling techniques and coordinate all research collaborations.
* Ph.D. in biology (or equivalent experience) as manager of a 2D-gel laboratory/database as part of a research program on vascular injury response.
* M.S. in chemistry/engineering (or equivalent experience) as instrumentation/computer manager and to operate and improve LC and MS systems.

The new laboratory will be dedicated exclusively to technology development and research. Background in the relevant fields is an absolute requirement for all positions. Salaries will be commensurate with experience. Candidates should send a curriculum vitae and references to:

Paul Temple, Ph.D.
Molecular Biology Program,
Sloan-Kettering Institute
1275 York Avenue
New York, NY 10021
I view the please. Amgen, Thousand Oaks Amgen representatives, dates and attend. Opportunity a development, to be of neuromuscular disease, one or more disease conditions. A Bachelor's degree or equivalent is required.

RESEARCH SCIENTIST POSITIONS. Candidates should have a Ph.D. or equivalent in a relevant area and 1-3 years of postdoctoral experience. Additional experience as an independent scientist in academic or industry settings is desirable but not essential.

POST-DOCTORAL POSITIONS. A Ph.D. or equivalent in a relevant area of neurobiology is required.

RESEARCH ASSOCIATE POSITIONS. A Bachelor's degree or equivalent and relevant work experience in neurobiology, including neuronal cell culture or neurohistochemistry, are necessary.

Amgen offers a stimulating and challenging research environment on the leading edge of biotechnology. Our need for these positions reflects an ever increasing commitment to the development of significant products for human health care through excellence in research.

If you have the necessary skills and would like to be a part of an organization that places a high priority on its human resources, please send us a complete C.V. in confidence.

Amgen representatives will attend the upcoming Society of Neurosciences meeting. We will provide the opportunity for confidential interviews there. Please indicate if you plan to attend so that we may schedule interview dates and times with you in advance.

AMGEN, INC.
Recruitment, Dept. #557
Amgen Center
Thousand Oaks
CA 91320-1789
**Bristol-Myers Squibb Pharmaceutical Research Institute**

The Squibb Institute for Medical Research is continuing to expand our extensive research efforts in the areas of cardiovascular, infectious, oncologic and metabolic diseases.

**GROUP LEADER**

**Biochemist – Virology**

The Virology Department has an opportunity for an enzymologist in its antiviral programs. The successful candidate should have experience with enzyme/inhibitor interactions, as indicated by an established record of accomplishment. In addition, he or she is expected to lead the research of several laboratories involved in evaluation of antiviral drugs in an established and productive program. This position is based in Princeton, NJ. **Reply to Dept. #158A.**

**GROUP LEADER**

**Molecular Virologist**

The Virology Department is seeking a molecular virologist to lead research aimed at defining potential new antiviral targets. The successful candidate should have an established record of scientific accomplishment, preferably in studies of herpesvirus replication. In addition, the candidate should be confident in directing several laboratories in the areas of genome replication and replication of gene expression. This position is based in Princeton, NJ. **Reply to Dept. #158B.**

**SECTION HEAD**

**Toxicology**

The Department of Toxicology, located in our New Brunswick, NJ campus, is seeking a Sr. Toxicologist to supervise toxicologic study groups and manage drug safety projects with particular emphasis on meeting international regulatory requirements, clinical research needs, and company development milestones. This position is also responsible for the preparation of summaries and other documents for regulatory submissions including Pharmaco-Toxicologic Expert Reports and NDA Nonclinical Summaries. Candidates should possess a Ph.D. in Toxicology or a related discipline along with 5-7 years experience in the pharmaceutical industry. **Reply to Dept. #158C.**

Please forward your resume to (including dept. code#): Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.

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**CLONING & ANALYSIS OF LARGE DNA MOLECULES**

_April 8 - 22, 1991_

_Bruce Birren, California Institute of Technology_  
_Nancy Shepherd, E. I. DuPont de Nemours & Co_  
_Sue Klapholz, Cell Genesys, Inc._

This course will cover the theory and practice of manipulating and cloning high molecular weight DNA. Lectures and laboratory work will deal with the use of bacteriophage P1 and yeast artificial chromosome (YAC) cloning systems, the isolation and manipulation of high molecular weight DNA from mammalian cells for cloning (including the size-selection of >200 kb DNA fragments), and the analysis of high molecular weight DNA by pulse field gel (FFG) separation techniques. P1 and YAC recombinant DNA molecules will be produced, introduced into cells (E. coli and yeast, respectively), and resoated after appropriate clone selection and colony screening procedures. A variety of size standards for pulsed-field gel electrophoresis will be prepared and gels will be run to compare the DNA separation capabilities of the common FFG techniques. Students will gain experience with physical mapping of YAC inserts and high molecular weight genomic DNA. Lectures by outside speakers on topics of current interest will supplement the laboratory work.

**PROTEIN PURIFICATION AND CHARACTERIZATION**

_April 8 - 22, 1991_

_Daniel R. Marshak, Cold Spring Harbor Laboratory_  
_Bruce W. Erickson, University of North Carolina_  
_Jim Kadonaga, University of California, San Diego_  
_John A. Smith, Harvard Medical School_

This course is intended for scientists who are not familiar with techniques of protein isolation and characterization. Students will learn the major techniques in protein purification by actually performing four separate isolations including: (i) a regulatory protein from muscle tissue; (ii) a fusion protein from _E. coli_; (iii) a DNA binding protein from nuclei of tissue culture cells; and (iv) a chemically synthesized peptide. A variety of chromatographic, electrophoretic, and bulk fractionation techniques will be employed including: ion exchange, gel filtration, hydrophobic interaction, affinity-based adsorption, and immunoaffinity chromatography; polycrylamide gel and two-dimensional gel electrophoresis and electroblotting; precipitation by salt and pH; and HPLC analysis. Methods of protein characterization will be discussed including amino acid analysis, protein sequencing, and mass spectrometry. Emphasis will be placed on methods of protein purification rather than automated instrumental analysis. Guest lecturers will discuss protein structure, modifications of proteins, and methodologies for protein purification. Applications of protein biochemistry to various areas of research in molecular biology will be discussed. Guest lecturers include: R. Aebersold, L. Gierasch, G. Hart, N. Pace, Y. Paterson, G. Rose, and K. Wilson.

Tuition, room and board: $1,475.  
Application deadline: January 15, 1991  
Application/information may be obtained from:  
REGISTRAR  
Cold Spring Harbor Laboratory  
Cold Spring Harbor, New York 11724  
Phone: 516-387-8343
POSTDOCTORAL POSITION IN DEVELOPMENTAL NEUROBIOLOGY

A position is available to study neural differentiation and the regulation of neurotransmitter metabolism in the nematode C. elegans. Projects emphasize the use of genetic, molecular, and immunocytochemical techniques. Those with prior experience in molecular biology, genetics, cell biology, and/or biochemistry are urged to apply.

Please send letter and curriculum vitae, or call (405) 271-7681.

James B. Rand, Ph.D., Program in Molecular and Cell Biology, Oklahoma Medical Research Foundation 825 N.E. 13th Street Oklahoma City, OK 73104

BOE/Affirmative Action Employer. OMRF encourages women and minorities to apply.

OPEN POSITIONS

NIH POSTDOCTORAL FELLOWSHIPS. Available to study cell aging and controls of cell proliferation/differentiation. Start dates prior to 1 January 1991 or after 1 May 1991. Send curriculum vitae and statement of research interests to: Barbara Gilchrist, M.D., Department of Dermatology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118.

POSTDOCTORAL FELLOW

Two-year fellowship available immediately to study the cell biology of microfilaments (diabetic retinopathy and proliferative vitreoretinopathy). A strong background in cell biology is essential. Experience with monoclonal antibody or pigment epithelial, and endothelial cell culture is desirable. Send curriculum vitae, research interests, and three recommendation letters to: John T. Thornton, M.D., Director, Retina Section, Yale University Department of Ophthalmology and Visual Science, 330 Cedar Street, New Haven, CT 06510.

POSTDOCTORAL FELLOWSHIP

A postdoctoral position is immediately available to study the potential of novel embryonic stem cells to serve as a source of tissue for therapeutic transplantation and/or as a cellular model system for gene therapy. A successful candidate will have a Ph.D. degree in either molecular or developmental biology and solid experience in the methods of both mammalian developmental biology and molecular biology. Candidate should submit a statement of interest, curriculum vitae, and the names of three references to: Dr. Thomas E. Wagner, Edison Center, Ohio University, Athens, OH 45701. Minimum salary: $25,000. Affirmative Action/Equal Opportunity Employer.

FELLOWSHIPS FOR POSTDOCTORAL TRAINING. In neural development, plasticity, and regeneration at The Ohio State University, Systems, cell-cell, and molecular approaches are available to trainees supported by an NINDS training grant. Faculty include: R. Alley, B. Beattie, B. Bishop, B. Jontes, J. Bremhan, B. Burry, D. Cooke, J. Houghton, J. King, J. Lim, M. Martin, N. Neff, R. Nordlander, R. Rogers, B. Rotter, B. Stakes, T. Tsuji, J. Wood, and A. Yates. Fellowships supported by the training grant must be to U.S. citizens or permanent residents; however, other positions may be available which can be supported by funds available to individual investigators.

Applications, including recommendation letters, statement of research interests, and three letters of recommendation, should be sent to: Dr. G. F. Martin and Ms. S. Beattie, Department of Cell Biology, Division of Anatomy, The Ohio State University, 333 West 10th Avenue, Columbus, OH 43210. Potential applicants are encouraged to contact program directors and prospective faculty sponsors for detailed information. Telephones: Dr. Martin, 614-292-1667; Dr. Beattie, 614-292-1781.

GRADUATE AND POSTDOCTORAL FELLOWSHIPS

EQUILIBRATORY MECHANISMS

Six core faculty (V. Chandler, L. Heisler, R. Lande, M. Lynch, E. Sela, and P. Stahl) in the Department of Biology, University of Oregon, are administering a 5-year NSF training grant for studies on genetic mechanisms of evolution. We are seeking highly qualified postdoctoral candidates for RESEARCH ASSOCIATE positions and graduate student candidates for GRADUATE RESEARCH FELLOW positions. A sincere commitment to understanding the molecular genetics and evolution at the phenotypic level is an essential requirement for appointment. The initial deadline for 2-year postdoctoral appointments is 25 November 1990; thereafter, applications will be reviewed about every six months. Applicants should submit a brief summary of research interest, curriculum vitae, and names, addresses, and telephone numbers of three references. We are especially interested in minority recruitment. Further information can be obtained from any of the faculty. Send applications to: Evolutionary Mechanisms Training Group, Department of Biology, University of Oregon, Eugene, OR 97403. The University of Oregon is an Equal Opportunity/Affirmative Action Institution, committed to cultural diversity.

POSTDOCTORAL FELLOW

MOLECULAR PATHOBIOLOGY

The Department of Pathology, University of Maryland, has two positions available to participate in projects involving cellular and molecular aspects of toxic cell injury with particular emphasis on measurement and imaging of intracellular ion concentrations, gene expression and regulation, and mechanisms of cell death. One project involves reactions of renal tubular epithelium to oxidant stress, ischemia, and related injuries; the other examines mechanisms of action of cancer chemotherapeutic agents in bronchial epithelium and tumor cell lines. The ideal candidate holds an M.D., M.D. D.V.M., or D.D.S. with strong background in molecular biology, tissue culture, and/or cellular regulation and imaging using fluorescent probes.

Competitive salary and benefits including health care package.

Send curriculum vitae including statement of research experience and names of three references to: Benjamin F. Trump, M.D., Chairman, Department of Pathology, University of Maryland, Room 7-34, 10 South Pine Streets, Baltimore, MD 21201. An Equal Opportunity/Affirmative Action Employer.

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AT BALTIMORE

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POSTDOCTORAL RESEARCH ASSOCIATE IN DEVELOPMENTAL NEUROBIOLOGY. Available immediately to participate in a study of the role of hippocampal plasticity in cerebellar development in wild type and mutant mice after chronic in vivo exposure to neurotransmitter antagonists. Send curriculum vitae, research interests, statement of research interests, and names of three references to: Dr. Michael W. Vogel, University of Maryland School of Medicine, Maryland Psychiatric Research Center, P.O. Box 21247, Baltimore, MD 21228. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Opportunity to study the molecular basis of asbestos carcinogenicity. Experience in development and molecular biology techniques required. Please send curriculum vitae, three letters of recommendation, and summary of research experience to: Agnes B. D., Department of Pathology and Laboratory Medicine, Brown University, Providence, RI 02912. Brown University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Positions available for recent Ph.D.s to study the mutation, function, and regulation of thymidylate synthase in human cancer cells, and to determine events that influence programmed cell death. Techniques include molecular biology, gene sequencing, protein purification, enzymatic kinetics, HPLC, and cell culture. A strong background in molecular biology, biochemistry, or molecular pharmacology is required. Send curriculum vitae and three letters of reference to: Dr. J. A. Houghton, Department of Pharmacology, St. Jude Children’s Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

RESEARCH ASSOCIATE

Position available for individual with experience and training in molecular biology/microbiology with Ph.D. or M.D. Experience or training in DNA sequencing and molecular biology techniques is essential. Interested applicants should send curriculum vitae, a statement of research interests, copies of relevant publications, and the names of three references to: Dr. Kenneth W. Minton, Department of Pathology, Uniformed Services University of the Health Sciences, Bethesda, MD 20889-4799 or Telephone: 202-295-3476. U.S. citizenship or residency is required. An Equal Opportunity/Affirmative Action Employer.
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Research Scientist Microscopist

Kraft General Foods, a world leader in the food industry, is currently seeking a Research Scientist with selected skills in the area of microscopy to work in our Basic Science Division.

The selected individual will join a Microstructure Group studying the structure/function relationships inherent in diverse food systems which include proteins, carbohydrates and lipids. A team approach is used in conjunction with other physical chemistry disciplines to drive and support product and process development in diverse areas such as cultured and frozen dairy products, viscous and pourable dressings, margarine and spreads among others.

A PhD or equivalent background in biological science with appropriate experience in the following microscopy techniques: TEM, freeze fracture and freeze substitution is required. Experience in Cyro-SEM, Image analysis and computer imaging is favorable.

We offer an attractive compensation and full benefits package. Please send resume with salary history in confidence to: Manager, Technical Recruiting, Kraft General Foods, Technology Center, 801 Waukegan Road, Glenview, IL 60025. An Equal Opportunity Employer m/f/h/v.

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CNS Pharmacologist

Whitby Research, Inc., a wholly owned subsidiary of the Ethyl Corporation, is a pharmaceutical company committed to the discovery and development of new drugs. The company currently has an opening for a CNS Pharmacologist.

The successful candidate will be involved in the development of bioassays using in vivo models including behavioral models to evaluate the specificity and efficacy of new chemical entities developed by the company. This person will also coordinate various research programs with academic and industrial scientists worldwide.

Neuroscientists interested in applying for this position should have a Ph. D. with three or more years’ postdoctoral experience in CNS physiology and pharmacology. Industrial pharmaceutical experience is desirable. Expertise in behavioral pharmacology or psychopharmacology and excellent oral/written communication skills are essential.

Whitby Research, Inc. is located in Richmond, Virginia, and offers a stimulating intellectual environment ideal for career growth. Please send resume to:

Manager, Human Resources
Whitby Research, Inc.
P.O. Box 27426
Richmond, Virginia 23261-7426

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The University of British Columbia

BIOTECHNOLOGY LABORATORY

Fermentation/Process Engineering Group

The University of British Columbia has recently initiated the Biotechnology Laboratory under the directorship of Dr. Michael Smith. Its objective is to foster an interactive approach to problems in biotechnology. Applications are invited for a tenure track appointment at the rank of Assistant Professor. Applicants must have a Ph.D. degree, post-doctoral experience an asset. Substantial start-up funding will be provided. The individual appointed to the Biotechnology Laboratory will have a joint appointment with an appropriate academic Department and will teach and supervise undergraduate and/or graduate students in that Department's programs or in academic programs to be established under the auspices of the Biotechnology Laboratory. A candidate is sought with research expertise in either of the following areas of Bioprocess/Genetic Engineering:

**DOWNSTREAM PROCESSING** - Applicants should be interested in developing a research program involving novel purification methods and/or aspects of chemical engineering applied to large-scale protein recovery. Candidates with industrial experience and a strong academic background are encouraged to apply. The successful candidate would be expected to develop a teaching program bridging the biochemical and engineering disciplines related to downstream purification.

**PROTEIN/GENETIC PROCESSING** - Applicants should be experienced in the application of genetic engineering and/or biochemical principles to protein production. The successful candidate would be expected to develop an active research program in the area of protein engineering, expression and/or purification of biologically or industrially important proteins. The successful candidate would be expected to develop a teaching program bridging the genetic and biochemical engineering disciplines involved in downstream purification.

The appointment will be made starting July 1st, 1991 or as soon as possible thereafter. Closing date for applications is November 30, 1990. Salary will be commensurate with qualifications and experience. The University of British Columbia is committed to the Federal Government's employment equity program and encourages applications from all qualified individuals. In accordance with Canadian immigration requirements priority will be given to Canadian citizens and permanent residents.

Applications, including a full c.v., plans for future research (approximately 2-3 pages), and the names, addresses and phone numbers of three references, should be sent to:

Mrs. Darlene Crowe, Administration, Biotechnology Laboratory, The University of British Columbia, Room 237 - 6174 University Boulevard, Vancouver, B.C. CANADA W1T 1W6.
NEUROBIOLOGY AT ROCHESTER
Tenure Track Faculty Positions

The Department of Neurobiology and Anatomy at the University of Rochester School of Medicine is recruiting research-oriented neuroscientists capable of contributing to educational programs in gross anatomy and neural science. Our departmental faculty provide a broad base of collaborative neuroscience research opportunities that range from molecular through systems approaches. Strong interdepartmental programs serve as bridges to several clinical programs, particularly in areas of neurodegenerative disorders.

Established or newer investigators are invited to forward a current C.V., 3 selected reprints, the names of 3-5 references, and a letter of transmittal. As a courtesy to references, please do not request that letters be sent at this time. Opportunities will exist at the Society for Neuroscience Meeting for preliminary interviews through the placement service. Address correspondence to:

John R. Sladek, Jr., Ph.D.
Kilian and Caroline Schmitt Professor
Chair of Neurobiology and Anatomy
Univ. of Rochester School of Medicine
601 Elmwood Avenue, Box 603
Rochester, New York 14642

DIAGNOSTIC PRODUCT DEVELOPMENT SCIENTIST

Amgen, an established leader in the field of biotechnology, has a position available in Diagnostic Product Development. The rapidly expanding Diagnostics group is located in Boulder, Colorado.

The successful Development Scientist candidate should have an MS or Ph.D. with at least 5 years of diagnostic product and process development experience and supervisory experience. A knowledge of statistical experimental design and a track record of successful diagnostic development are ideal. This person will be responsible for coordinating all aspects of a product’s diagnostic development, including costs, scheduling, and transfer to manufacturing.

Amgen offers an excellent compensation and benefits package and the unique opportunity to contribute to significant research programs. If you have the necessary skills and qualifications, please send a resume, in confidence, to:

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Department 233B
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Boulder
CO 80301

GENETIC TOXICOLOGIST

MICROBIOLOGICAL ASSOCIATES, INC., a leading biological testing and research service company, has an immediate opening for a Genetic Toxicologist at our Rockville, MD Life Science Center.

The successful candidate will act as study director in the in vitro mammalian cell mutagenesis laboratory supervising a staff of two laboratory supervisors and six biologists. Responsibilities will include contract testing activities as well as participation in research programs.

Requirements include a Ph.D. degree, background in mammalian cell mutagenesis or in vitro toxicity assessment is desirable.

Microbiological Associates, Inc.’s state-of-the-art facility is located in the northern suburbs of Washington, D.C. We offer a comprehensive salary and benefits package that includes relocation. Join us as we continue to build on our 40 year commitment to high quality science.

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The National Institutes of Health (NIH) invites nominations and applications for the position of Director, National Institute of Environmental Health Sciences (NIEHS). The Director is responsible for management and direction of one of the preeminent centers for toxicology research in the world, focused on characterizing chemicals in the environmental health sciences. The Director is responsible for the coordination and direction of all programs and activities in the Institute and serves as principal advisor to the Director, NIH, on environmental health-related matters.

The Director, NIEHS also serves in a dual role as the Director, National Toxicology Program (NTP). The NTP is a coordinated effort among DHHS agencies to characterize the toxicity of chemicals.

This is a Civil Service position in the Senior Executive Service (SES), with a base salary from the ES-1 to the ES-5 pay level (currently $71,200 to $81,400 per year) depending on qualifications. SES members are eligible for various bonuses and awards, and physicians are eligible for a comparability allowance of up to $20,000 per year, although total compensation cannot exceed the rate of Executive Level I (currently $107,300 per year). Applicants may also be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service. The SES individual selected, if not presently in the Senior Executive Service, must serve a one-year probationary period.

For more information, contact Mr. Alvin L. Wade, Jr. at (919) 541-1993. The following forms are required: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These forms may be submitted to:

Mr. Alvin L. Wade, Jr.
National Institute of Environmental Health Sciences
Personnel Office (1-01)
P.O. Box 12233
Research Triangle Park, North Carolina 27709

All applicants tentatively selected for this position will be required to submit to urinalysis prior to appointment to screen for illegal drug use.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.
POSTDOCTORAL RESEARCH ASSOCIATE

POSTDOCTORAL RESEARCH ASSOCIATE (MOLECULAR/CELLULAR BIOLOGY). The Department of Animal Sciences, University of Illinois at Urbana-Champaign (UIUC), invites applications for the position of research assistant professor (non tenure-track) in the area of gene mapping and expression. The individual will be involved in a program targeted at identifying genes associated with growth, development, and disease resistance in domestic animals. Interactions will be with the gene transfer, transgenesis, embryo cloning, and development of recombinant DNA technologies. Qualifications: Ph.D. in biology, molecular biology, genetics, animal sciences, or related field. Postdoctoral experience is desired. Salary commensurate with qualifications. Candidates should submit a letter of interest, curriculum vitae, and the names, addresses, and telephone numbers of three references to: Dr. R. J. Reiter, Head, Department of Animal Sciences, University of Illinois, Urbana, IL 61801. Telephone: 217-333-6551. The UIUC is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE TO STUDY THE REGULATION OF CELL MORTALITY. Research in structure/function relation, developmental regulation, and cell biology of several Ca2+ - and polyphosphate dependent signal transduction processes. Project involves the use of tumor cell analysis and immunocytochemistry to study the effects of calcium in cellular growth. Application is required immediately. Send letter of interest and curriculum vitae to: Dr. D. A. Scheck, Department of Cellular Biology, University of Illinois at Chicago, 851 S. Paulina, Chicago, IL 60612. Telephone: 312-922-1795. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE (IMMUNOLOGY). Position available immediately to study herpesvirus and/or HIV at the molecular level (e.g., purifying and characterizing viral and cellular proteins and protein-protein interactions in vitro). Position requires a Ph.D. or M.D. Qualifications: Excellent oral and written communication skills and excellent research experience. Send letter of application and curriculum vitae to: Dr. H. V. Goudsmit, Department of Microbiology, University of California, San Francisco, CA 94143. Telephone: 415-476-1500. The University of California is an Affirmative Action/Equal Opportunity Employer.


POSTDOCTORAL RESEARCH ASSOCIATE: Molecular Immunology. Position available immediately to study interactions of the immune system with infectious agents. Requires a Ph.D. in immunology or related field. Send applications to: Dr. R. M. Zinkernagel, Department of Microbiology, University of California, San Francisco, CA 94143. Telephone: 415-476-1500. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: Molecular Biology of Invertebrates. Position available immediately to study molecular mechanisms of development in Drosophila melanogaster and C. elegans. Requires a Ph.D. or equivalent degree. Send applications to: Dr. J. E. Carroll, Department of Biology, University of California, Santa Cruz, CA 95064. Telephone: 831-459-3187. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: Molecular Biology and Microbiology. Position available immediately to study the molecular basis of DNA replication. Requires a Ph.D. in molecular biology or related field. Send applications to: Dr. R. A. Dilworth, Department of Biology, University of California, Santa Cruz, CA 95064. Telephone: 831-459-3187. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: Molecular Biology of Eukaryotes. Position available immediately to study the molecular basis of DNA replication. Requires a Ph.D. in molecular biology or related field. Send applications to: Dr. R. A. Dilworth, Department of Biology, University of California, Santa Cruz, CA 95064. Telephone: 831-459-3187. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: Molecular and Cell Biology. Position available immediately to study the molecular basis of DNA replication. Requires a Ph.D. in molecular biology or related field. Send applications to: Dr. R. A. Dilworth, Department of Biology, University of California, Santa Cruz, CA 95064. Telephone: 831-459-3187. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: Molecular Biology and Microbiology. Position available immediately to study the molecular basis of DNA replication. Requires a Ph.D. in molecular biology or related field. Send applications to: Dr. R. A. Dilworth, Department of Biology, University of California, Santa Cruz, CA 95064. Telephone: 831-459-3187. The University of California is an Affirmative Action/Equal Opportunity Employer.
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Session 3-Interleukins
Session 4-Application of Protein in Crystallography in Drug Design
Session 5-Neuroreceptors

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N. Ronald Morris, UMD New Jersey • Teruhiko Beppu, University of Tokyo • Robert Haselkorn, University of Chicago • Hirofumi Uchimia, Hokkaidou University • Frank Lee, DNAX Research Institute • Toshio Hirano, Osaka University • John Erickson, Abbott Laboratories • Masaaki Matsuhashi, Protein Engineering Research Institute • Glauco Tochini-Valentini, CNR, Rome, Italy • Shigeta Nakanishi, Kyoto University

Poster presentations will be exhibited for all five topics of the Symposium

For further information, please contact:
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- GENE REGULATION
- MOLECULAR GENETICS
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- NEUROBIOLOGY
- MOLECULAR VIROLOGY AND IMMUNOLOGY

The Graduate School at BAYLOR COLLEGE OF MEDICINE has recently created a graduate program in CELL AND MOLECULAR BIOLOGY stressing basic research in the above areas. Students accepted for studies leading to the Ph.D. degree will receive financial support. For further information contact:

Dr. Savio Woo, Director
Graduate Program in Cell and Molecular Biology
Baylor College of Medicine, Room 185A
One Baylor Plaza
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Phone: (713) 798-6557
POSITIONS OPEN

NUTRITIONIST/RESEARCH ASSISTANT. Chelation therapy, Ph.D. degree required. Food and/or nutrition science. Experience in chelation therapy mode- of-action research and development of a chelation treatment system, including 5 to 10 years overall experience in nutrition research. Duties include consultations with patients (un- der supervision of M.D.), research diet planning, research protocols, diet plans, ongoing research, and data evaluation in areas of chelation therapy, developing new dietary regimens and managing patients. Experience with major aliments, including atherosclerosis, lithogenesis, liver malfunction, and other circulatory diseases. Forty hours per week. Salary: $35,000 per year. Interview/job site: San Diego. Send the Job #KV17878, P.O. Box 9560, Sacramento, CA 95823-0560, no later than 20 October 1990.

RESEARCH SCIENTIST. The Department of Obstetrics and Gynecology at the State University of New York (SUNY) at Stony Brook is recruiting for a research scientist. A Ph.D. in biological or physical science and a minimum of 2 years of experi- ence in DNA sequencing are required. The successful candidate will work to define the association between specific insulin receptor genes and the polycystic ovary syndrome phenotype. The major focus will be sequencing insulin receptor DNA from patients with pedigrees with severe insulin resistance and polycystic ovaries. Interested candidates should send curriculum vitae and three names of references to: Robert L. Gleris, M.D. Professor and Chairman Department of Obstetrics/Gynecology SUNY at Stony Brook Stony Brook, NY 11794-8091 SUNY Stony Brook is an Equal Opportunity/Affirmative Action Employer.

SENIOR NUCLEIC ACIDS CHEMIST. Triplex Pharmaceutical Corporation, located in The Woodlands, north of Houston, Texas, is currently seeking an experi- enced Ph.D. senior research chemist. The candidate should have three or more years of postdoctoral research experience with reputed scientists in the field and should be capable of conducting independent research in the synthesis, purification (HF/PC), and ion-exchange chromatography techniques, and characterization (H NMR, 2D NMR, C NMR, mass and UV spectroscopy) of heterocycles, nucleosides, nucleotides, and oligonucleotides (solid/solution phase) with a strong background in medicinal chemistry. Should have extensive publication record. The successful candidate will devise new chemical methods for the target triplex formation of oligonucleotides with base, back bone, and end modifi- cations. Forty hours per week. Salary: $45,000 to $48,000 per year, depending on experience. Closing date: 15 November 1990. Please send detailed résumé, publication/patent list, and three letters of recommenda- tion (in confidence) to: Dr. R. R. Revankar, Director, Nucleic Acids Chemistry, Triplex Pharmaceuticals, 9391 Grogans Mill Road, The Woodlands, TX 77380. An Equal Opportunity Employer.

STAFF TOXICOLOGIST. For manufacturer in Cincinnati area. Responsibilities include evaluating the potential health effects of new ingredients and formula- tions for laundry products. This will involve the design, implementation, and interpretation of a breadth of tox- icology studies (including teratology, neurotoxicity, and acute and chronic toxicity studies), and culminating in a prepara- tion of risk assessments. If toxic effects are identified during testing, will be responsible for coordinating tests of the mode of action and determining the results to determine the specific mechanism of action causing the toxicity. Coordinate multi-disciplinary teams of scientists and interact with regulatory agencies at both the state and federal level. Ph.D. in toxicology or life science field in toxicology required plus 2 years in job offered or 2 years in postdoctoral toxicological research. Two years of experience must involve neurotoxicology, teratology, in vitro test methods, acute and chronic toxicity testing. Forty hours per week, 8:30 a.m. to 5:30 p.m., Monday to Friday, beginning September 1990. Must have proof of legal authority to work permanently in the United States. Send résumé in duplicate (no calls) to: S. Holton, JO#1099731, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

RESEARCH OPEN

RESEARCH SCIENTIST. Position available immediately for a Ph.D. or M.S. scientist interested in studying cellular and molecular regulation of amino acid metabolism. Experience in molecular biology and cell culture is a prerequisite. A long-term commitment is preferred. Excellent salary ($38,000 to $40,000) commensurate with experience. Send curriculum vitae, letter of interest, Surgical Metabo- lism, Box J-286, University of Florida College of Medicine, Gainesville, FL 32610. Telephone 904- 395-0494. The University of Florida is an Equal Opportunity Employer.

RESEARCH ASSISTANT. Highly motivated and well-organized individual needed to assist with laboratory and clinical research in vascular surgery including: (i) biochemical analysis and interpretation of results for review by principal investiga- tor, (ii) experimental microsurgical techniques, and (iii) tissue and cell culturing. Co-authors and assists in the preparation of scientific publications and grant applic- ations.

MINIMUM QUALIFICATIONS: B.S. in biochemistry, chemistry, or biology with 2 to 3 years of laboratory experience, M.S. in biochemistry, chemistry, or biology with 1 to 2 years of experience. Excellent benefits package including medical/dental and prescription plans. Contact: Steve J. Levine, 212-231-0674, or FAX your résumé to 212-231-9811.

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ANNOUNCEMENTS

The Center for Indoor Air Research, a new nonprofit corporation which sponsors objective scientific research on the full gamut of indoor air research topics, has available its 1991 Request for Applications booklet. For the provision of sufficient time for the Science Advisory Board and peer-review process to occur, applications for 1 January 1992 funding must be received by 1 May 1991. For more information on the Center for Indoor Air Research and/or a copy of the Request for Applica- tions booklet, call or write: Center for Indoor Air Research 1099 Winterson Road, Suite 280 Linthicum, MD 21090 Telephone: 301-684-3777

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