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POSITIONS OPEN

MOLECULAR GENETICIST

The Division of Hematopathology in the Department of Pathology at Vanderbilt University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. The position will allow 50% time for independent research with the remainder devoted to establishing a faculty role in clinical research by residents, postdoctoral fellows and faculty.

This individual will organize and facilitate the development of research programs and the study of human neoplasms and reactive disorders of the hematopoietic lymphoid system. Applicants should have a Ph.D. degree with extensive experience in molecular biology. For further information regarding the position address inquiries to: Dr. Robert Collins, Department of Pathology, Vanderbilt University Medical Center, 1811 West End Avenue, Nashville, TN 37232.

Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

East Tennessee State University (ETSU)—College of Medicine—Department of Microbiology—ASSISTANT ASSOCIATE PROFESSOR, virologist. Applications are invited for a face-to-face position to develop a vigorous independent research program and collaborative interactions with other investigators. Essential functions: initiate and maintain a vigorous independent research program and collaborative interactions with other investigators. Qualifications: Ph.D. and two years of postdoctoral work required. Interested in molecular approaches to viral pathogenesis especially the AAV. Submit application letter, curriculum vitae, names of three references and statement of research interests to: D. W. Lamb, Ph.D., Chairman, Department of Microbiology, College of Medicine, ETSU, Box 70579, Johnson City, TN 37614-0879.

Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF CALIFORNIA SAN DIEGO SCHOOL OF MEDICINE PROFESSOR OF NEUROSCIENCES

The Department of Neurosciences is seeking applications and nominations for a tenured position at the Associate, Full Professor level. The candidate must be an accomplished scientist and a recognized leader in cellular and molecular biological research related to the nervous system, with proven ability as a scholar and a teacher.

The candidate will occupy laboratories in a new building and should enjoy interactions with colleagues both in the Department of Neurosciences and throughout the La Jolla community. Applications should be submitted by March 1, 1994. Salary will be commensurate with rank, and experience and will be based on University of California pay scales. Curriculum vitae and bibliography should be sent to: Faculty Search Committee, Department of Neurosciences, University of California, San Diego, School of Medicine, 9500 Gilman Drive, La Jolla, CA 92039-0624.

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

The newly established Division of Circulatory Physiology at Columbia University College of Physicians and Surgeons invites applications for its growing biophysics research program. Plans for expansion are aimed at the creation of a world class research effort in the area of heart failure research. Basic scientists with expertise in the areas of molecular and cellular biology and basic pharmacology who have demonstrated excellence in conducting independent research are encouraged to apply. Candidates should be able to provide extramural research support and possess either M.D. or Ph.D. in relevant field. Several positions will be available at the ASSISTANT PROFESSOR, ASSOCIATE RESEARCH SCIENTIST and ASSOCIATE PROFESSOR level. Academic appointment and compensation will be commensurate with research experience. We seek Affirmative Action toward Equal Opportunity. Please submit curriculum vitae, a brief statement of research interests, copies of representative publications and the names of three references to: Milton Packer, M.D., Chief, Division of Circulatory Physiology, Columbia University, College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032.

ASSISTANT PROFESSOR MEDICINAL CHEMISTRY

The Department of Medicinal and Biological Chemistry at the University of Toledo College of Pharmacy invites applications for a tenure-track faculty position at the level of Assistant/Associate Professor, to begin September 1, 1994. A Ph.D. in chemistry with a focus on medicinal chemistry, molecular biology or a closely related field is required. Particular consideration will be given candidates with a capability in emerging areas such as molecular modeling, molecular biology, gene therapy, or nuclear acid chemistry. The successful candidate is expected to establish an extramurally funded research program, to teach upper-division pharmacy students, and to supervise M.S. and Ph.D. students in the Medicinal Chemistry Program. Send curriculum vitae, a letter of introduction, and three letters of recommendation to: Dr. Channing L. Hinnman, Search Committee Chair, College of Pharmacy, The University of Toledo, Toledo, OH 43606-3390. Review of applications will begin March 15, 1994, and will continue until the position is filled. The University of Toledo is an Affirmative Action/Equal Employment Opportunity Employer.

FACULTY POSITION IN PHYSIOLOGY—TULANE

Applications are invited for a tenure-track appointment at the rank of ASSISTANT or ASSOCIATE PROFESSOR. Candidates holding the Ph.D. or M.D. degree, have a record of excellence in research, and be committed to academic programs in medical and graduate education. Research areas marked for expansion include cardiovascular, pulmonary, renal, cellular, molecular, and membrane/transport physiology. The successful applicant will be expected to have an established independent research program and the ability to develop an independent extramurally funded research program. Send curriculum vitae, description of research program, reprints, and four letters of recommendation to: Dr. L. Gabriel Navar, Chairman, Tulane University School of Medicine, Department of Physiology, SL-39, 1430 Tulane Avenue, New Orleans, LA 70118. Tulane University is an Affirmative Action/Equal Opportunity Employer.

University of California, San Francisco ENDOWED PROFESSORSHIP IN REPRODUCTIVE CANCER

The Department of Obstetrics, Gynecology and Reproductive Sciences seeks candidates holding either Ph.D. and/or M.D. degree with established basic research programs in cell and molecular reproductive cancer. Incumbent will be expected to establish an active research laboratory and to participate in the development of a group of investigators in reproductive oncology. It is expected that the new faculty member will participate in graduate education and obtain membership in the newly formed Graduate Center at University of California, San Francisco. Applicants should forward curriculum vitae, summary of current and past research activities and names of references by March 15, 1994, to: Richard J. Wein. Ph.D., Department of Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco, San Francisco, CA 94143-0854. UCSF is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR NEUROPHARMACOLOGY

The Department of Pharmacology, Toxicology and Therapeutics at the University of Kansas Medical Center invites applications for a tenure-track position at the Assistant Professor level. The candidate must have a Ph.D. or M.D. degree with at least two years of postdoctoral experience. The successful candidate will be expected to establish an independent research laboratory in molecular neuropharmacology and contribute to the teaching of graduate and medical students. The ideal candidate will have had training in pharmacology, neuroscience and molecular biology and previous affiliations with the Center for Molecular Biology and Occupational Health and the Mental Retardation Research Center are possible. Curriculum vitae and the names of three references should be sent to: Dr. S. J. Enns, Professor of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, Kansas City, KS 66160—7417. The University of Kansas is an Affirmative Action/Equal Opportunity Employer.
ASSISTANT/ASSOCIATE PROFESSORS, EXERCISE PHYSIOLOGY OR NEUROLOGICAL SCIENCE

Two tenure-track positions available in our graduate programs with Ph.D. publication record, and strong commitment to academia preferred. Areas of teaching include the neurosensory system, nutrition and cardiovascular, and respiratory physiopathology. The department is redirecting its focus to emphasize research and scholarship. Send letter and curriculum vitae to: Chairman, Ph.D., Professor and Chairman, Department of Physical Therapy, University of Kansas Medical Center, 3901 Rainbow Blvd., Kansas City, KS 66160-7601. Telephone: (913) 588-0799.

Equal Opportunity/Affirmative Action Employer. Minorities encouraged to apply.

The Department of Psychology, University of Mary-land, College Park: Seeks an ASSISTANT PROFES-SOR in BioPsychology. Persons applying preferably should have completed postdoctoral training and/or have at least three years of postdoctoral experience. We seek a scientist who has the potential to make major contributions to knowledge in BioPsychology, and particu-larly on topics related to the primary areas of interest: (1) neural mechanisms of behavior and the development of individual differences; (2) the relationship between brain and behavior; (3) the relationship of behavior to environmental factors; and (4) the relationship of behavior to psychological and social processes. The University of Maryland actively subscribes to a policy of Equal Educational and Employment Opportunities. For best consideration, materials should be received by February 15, 1994.

ASSISTANT/ASSOCIATE PROFESSOR TENURE-TRACK

Applications are invited for a tenure-track position at the level of Assistant Professor, or, exceptionally, Associate Professor in the Department of Pharmacology. Candidates should have a Ph.D., M.D., or equivalent degree, and excellent research credentials. Candidates using cellular, molecular and/or physical/chemical techniques in areas that complement current strengths of Department faculty are of particular interest. The Department has especially strong research programs in neuroscience and pharmacology, and is currently the leading academic unit in the United States. Applicants should have a Ph.D. or equivalent degree; at least three years of postdoctoral experience; and a strong commitment to research and teaching. The University of Maryland actively subscribes to a policy of Equal Educational and Employment Opportunities. For best consideration, materials should be received by February 15, 1994.

The University of Maryland actively subscribes to a policy of Equal Educational and Employment Opportunities. For best consideration, materials should be received by February 15, 1994.

ENVIROMENTAL TOXICOLOGIST

The Department of Biological Sciences, Wichita State University (WSU), invites applications for a tenure-track position with the rank of ASSISTANT or ASSOCIATE PROFESSOR. We seek an individual with broad training in toxicology and environmental biology. The applicant must possess significant postdoctoral training, a record of productive research, and the ability to work collegially. Appointment at the ASSISTANT level requires a record of funded research activity. Expectations also include teaching at both the undergraduate and graduate levels and participation in training in multidisciplinary environmental sciences at the graduate level. Wichita is the largest urban area in Kansas and offers a variety of opportunities for professional and personal development. Applications are also encouraged for a rank of ASSOCIATE PROFESSOR. Send letter, curriculum vitae, statement of research and teaching interests, and three letters of reference to: Dr. Robert D. Perry, Chair, Faculty Search Committee, Department of Microbiology and Immunology, 851451 Medical Center, Wichita State University, Wichita, KS 67260. WSU is an Affirmative Action/Equal Opportunity Employer.

BIOLGICALLaGrange College (Georgia). ASSIST-ANT PROFESSOR. Fall 1994. Ph.D. required. To teach Anatomy, Physiology, Embry-ology, and similar courses. Undergraduate research is encouraged but most institutional resources support teach-ing excellence. Biology is the fourth most populated major. The B.A. is offered. Undergraduate and community involvement is encouraged. Applicants should have a Ph.D. or equivalent degree and at least two years of postdoctoral research experience. Applicants will be evaluated on the basis of their research and teaching experience. Applicants must have a strong commitment to teaching in the Graduate and Professional ( Pharm.D.) Programs. Applicants should send curriculum vitae, a brief description of current and future research interests, and three letters of recommendation.

STANFORD UNIVERSITY—ECOLOGIST/EVOLUIONARY BIOLOGIST. The Department of Biological Sciences seeks a biologist studying species interactions from an ecological and/or evolutionary point of view. This tenure-track position will be filled at the ASSISTANT PROFESSOR level. Applicants for this position should send a letter of application and research interests, curriculum vitae, and at least three letters of recommendation to: Department of Biological Sciences, Stanford University, Stanford, CA 94305. Closing date for applications is March 1, 1994.

AQUATIC ECOSYSTEMS BIOLOGIST

The Biology & Microbiology Department, University of Wisconsin Oshkosh, invites applications for a tenure-track ASSISTANT PROFESSOR position beginning September 16, 1994. Responsibilities include: develop/trach courses in freshwater ecosystems analysis and advanced course in area of expertise; teach introductory biology and other courses as necessary; develop research program; advise students; supervise M.S. and Ph.D. theses. Ph.D. required. Postdoctoral and teaching experience desirable. Closing date: February 25, 1994. Send application, curriculum vitae, statement of research expectations and to: M. A. Rouf, Chair, Department of Biology & Microbiology, University of Wisconsin Oshkosh, 800 Alg fick Drive, Oshkosh, WI 54901-8640. The University of Wisconsin Oshkosh is an Affirmative Action/Equal Opportunity Employer.

SCIENCE • VOL. 263 • 21 JANUARY 1994
**SCIENTIFIC OFFICER, MARINE BIOLOGIST**

The Office of Naval Research (ONR) is seeking a highly qualified individual to plan and manage one of the nation's premier research and development programs in Marine Mammal Biology. The program emphasizes the effects of low frequency sound on marine mammal ecology and behavior, marine mammal biosonar systems, undulatory locomotion in marine mammals, and physiology of performance to expand marine mammal operational capabilities. The sponsored research is conducted principally at U.S. universities and industrial laboratories. This is a Civil Service position at the GS-13, 14 or 15 level ($47,920 - $86,589), depending on qualifications.

The individual selected will establish goals for and conceive, organize and direct research and development programs directed toward (a) the extraction and electronic emulation of the biosonar techniques by which marine mammals detect, locate and classify objects in the water column and beneath the ocean floor; (b) the effects of high intensity, low frequency sound on marine mammal ecology and behavior, including migration, mating, communication and auditory function; (c) the biomechanics of undulatory locomotion marine mammal systems and the application of this understanding to the development of novel locomotion systems; (d) marine mammal health; and, (e) marine mammal physiology and relationships to nutritional and thermal requirements, especially as related to workload and environmental conditions. This individual will complement and work in a team with existing staff having primary expertise in integrative biology, physiology, ecology, bioacoustics and biosonar systems, neurobiology, and computational analysis. The incumbent will identify new research opportunities, evaluate and select research proposals for funding, manage funding resources, communicate ONR's interests to the scientific community and represent the program within the Navy and DOD. This position provides the challenge and opportunity to have a significant impact on the direction and quality of research in marine mammal biology at the national level. Additionally, the opportunity exists to establish or maintain an individual research program at an academic institution or government laboratory.

Applicants must have a Ph.D. or equivalent training in biological science with an emphasis on marine mammal science or areas of related science and at least one year of professional experience OR an equivalent combination of education and experience. To be qualifying, this experience must have been at a level of difficulty and responsibility equivalent to that of the net lower grade level in the Federal Service. In addition, the applicant MUST have knowledge and experience in current state-of-the art research involving marine mammal science or in a related area as evidenced by recent and significant publications in scientific literature. Applicants without this knowledge and experience will not be rated qualified for this position. Experience in audition, animal cognition or comparative physiology is desired.

Interested persons should send a Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers or the address below); resume (optional); and, a list of publications to: Office of Naval Research, Satellite Human Resources Office, ONR CODE 00HR, ATTN: Announcement #93-36 (SCIENCE), 800 North Quincy Street, Arlington, VA 22217-5660. The express mail address is: 4015 Wilson Boulevard, Suite 103, Arlington, VA 22203.

Applications will be accepted through 27 April 1994 and should be received by that date. Applicants are requested to complete the appropriate supplemental forms. To request a copy of the vacancy announcement and supplemental forms, call (703) 696-4654 or TDD (telecommunication device for the deaf) (703) 696-2681; for further information please call (703) 696-4163 or 696-4587.

U.S. Citizenship Required

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**GENE THERAPY POST-DOCTORAL POSITIONS**

**ALBERT EINSTEIN DIABETES RESEARCH CENTER**

HSV-derived vectors will be used to develop potential gene therapies for diabetes and its vascular complications. Scientists with experience in molecular biology or virology are encouraged to apply.

Send curriculum vitae with the names of three references or inquire to:

Howard Federoff, M.D., Ph.D.,
Department of Neurosciences, or
Michael Brownlee, M.D.,
Diabetes Research Center

Albert Einstein College of Medicine
1300 Morris Park Avenue
Bronx, New York 10461

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**Viral Vaccine Research**

Lederle-Praxis Biologica!, a division of American Cyanamid Co., is recognized as an international leader in the research, development and manufacture of vaccines for the prevention of viral and bacterial disease. To maintain our success, our Viral Vaccine Department is now seeking an energetic and talented postdoctoral scientist to join our polio vector group and assume responsibility for cloning foreign genes into polio infectious cDNA clones and subsequent characterization of recombinant viruses; including analysis in a transgenic mouse model.

To qualify, you must be a recent graduate of a PhD program in molecular biology with hands-on experience in cloning, site-directed mutagenesis, sequencing and PCR, and excellent communication skills. Experience in virology, especially in the field of polio, is also helpful.

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: Lederle-Praxis Division, Box KM8846, Building 34A/123, Lederle Laboratories, Pearl River, NY 10965. We are an equal opportunity employer.
PROFESSOR, BIOLOGY TENURE-TRACK ASSISTANT PROFESSOR. Population Biologist or Microbial Ecologist/Generalist—Required to teachintro courses for majors and non-majors and Anatomy and Physiology. Expected to develop courses in major. Ph.D. is required, computer experience desirable. Send application, curriculum vita, statement of teaching philosophy, summary of research goals and three of your research interests, to: Dr. William Tramontano, Chair, Biology Department, College of Mount Saint Vincent/Manhattan College, 6301 Riverdale Ave, Riverdale NY 10471-1091. Applications are being accepted. Equal Opportunity Employer/M/F/Affirmative Action.

NEUROSCIENCE: Department of Physical Therapy/Exercise Science, University of Buffalo, is seeking an ASSISTANT PROFESSOR in Exercise Science, with emphasis in biomechanical or cardiovascular physiology. Send curriculum vita, statement of teaching and research interests, and three letters of reference to: Dr. Stephen Jonah, Chair, Department of Physical Therapy, 411 Kimball Tower, SUNY at Buffalo, Buffalo, NY 14260. Applications will be considered until positions are filled. SUNY at Buffalo is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE PROFESSOR. University Department of Biological Science has opening for Research Associate Professor. Directs research in direct research laboratory in Molecular and Cell Biology focusing on Goli function and protein sorting. Supervise graduate students. Publish and present research results on a regular basis. Requirements: Ph.D. in Biochemistry or equivalent with at least five years of experience in Biochemistry research. Specific background in recombinant DNA, protein chemistry, and ion transport required. Salary: $29,400 per year, 40 hours per week. Apply to: Employment Security Department, P.O. Box 2000, Fayetteville, AR 72702-2206, Job order #: 744042. Must have proof of legal authority to work in the United States. Equal Employment Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR. Department of Neuro-Oncology and Brain Tumor Center. Tenure-track position available for a Ph.D. or M.D./Ph.D. with interest in conducting laboratory research in molecular and cellular biology with significant emphasis in one or more of the following: drug discovery, tumor suppressor genes, protein tyrosine kinases, or molecular strategies for solid tumor therapy. Experience with brain tumors is encouraged but not required. Salary and benefits are highly competitive. Send curriculum vitae, summary of research interests, and references to: Dr. Brian A. Levin, M.D., Neuro-Oncology-Box 100, University of Texas M. D. Anderson Cancer Center, 1151 Holcombe Boulevard, Houston, TX 77030. Equal Opportunity/Affirmative Action Employer. Smoke-free environment.

OPPORTUNITIES IN NEUROSCIENCE. The Department of Psychology and Neuroscience at the University of California, San Francisco, seeks a board-certified neurologist doing fundamental research related to stroke's innuclence. The successful candidate will occupy a tenure-track position at the level of ASSISTANT to FULL PROFESSOR, with a joint appointment in the Department of Physiology, and in the interdepartmental Neuroscience Graduate Program. The candidate will carry out an independent research program and will participate in the undergraduate curriculum. Applications should include curriculum vitae, a statement of research interests, reprints of selected publications, and the names, addresses and telephone numbers of three individuals whom the applicant has asked to submit letters of recommendation. Women and members of underrepresented minority groups are encouraged to apply. Materials should be sent to: Chairman, Neurology/Physiology Search Committee, Department of Physiology, Box 0444, University of California, San Francisco, CA 94143-0444. UC San Francisco is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR MICROBIOLOGY. Applications are invited for a tenure-track, 12-month position in the Department of Microbiology, University of South Dakota School of Medicine. Preference will be given to applicants with research interests in virology, but outstanding candidates in other fields may also be considered. The successful candidate is expected to develop and conduct a competitive, independent research program, and participate in the instruction of medical, graduate, and undergraduate students. Salary and start-up funds will be commensurate with experience and qualifications. Send a letter of interest, current curriculum vita, statement of present and future research interests, and letters of reference to: Dr. Virgil H. Ehrlich, Chair of the Neuroscience Search Committee, Office of the Dean of Science and Technology, College of Science, University of South Dakota, 2800 Victor Boulevard, Yankton, SD 57078. Applications will be reviewed beginning September 1, 1994, and continue until a suitable candidate is identified. Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR, ORGANIC SYNTHESIS. University of Frankfurt (Main), Germany invites applications for a Tenure Position at the level of a FULL PROFESSOR. Applicants with a Ph.D. should have research expertise in chemical synthesis and should preferably be engaged in methodological development (e.g., combinatorial methods) and use of receptors-directed chemical synthesis for controlling biological activities with synthetic ligands. The successful candidate will join a group of vigorous faculty members and he/she will take part in an ambitious Bioactive Compound program to which the institute is committed. The facilities for and expertise in X-ray crystallography, NMR spectroscopy, molecular modelling, and biological synthesis are available. Applicants are expected to participate in the teaching duties in Organic Chemistry at all University levels. For the mailing address and further details, please see the attached website.

ASSISTANT/ASSOCIATE PROFESSOR, CARBOHYDRATE BIOLOGY. The College of Staten Island (CSI) of the City University of New York (CUNY) invites applications for a tenure-track position at the ASSISTANT PROFESSOR level beginning September 1, 1994. The successful candidate is expected to develop an active research program involving the synthesis of carbohydrates and related compounds. Qualifications include a Ph.D., demonstrated experience in carbohydrate chemistry, and teaching experience at the undergraduate level. Send curriculum vita, a statement of teaching and research interests, and three letters of recommendation to: Dr. Leslie Loew, Director, Center for Advanced Imaging Technology, Department of Chemistry, University of the City of New York, Staten Island, NY 10305. AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER, M/F/PwDV.

ASSISTANT/ASSOCIATE PROFESSOR, MICROBIOLOGY. Applications are invited for the position of Assistant Professor of Microbiology at The University of Texas at Austin. The successful candidate is expected to develop an active research program in bacteriology and participate in the teaching of bacteriology and/or general microbiology. The candidate should have a Ph.D. in a field of bacteriology and be able to direct research in the laboratory. The successful candidate is expected to have a well-developed research program and experience in teaching bacteriology. The position is available September 1, 1994. For further information, contact: Dr. J. E. D. Ellis, Chairman, Department of Microbiology, University of Texas at Austin, Austin, TX 78712. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.
**DIRECTOR OF MEDICAL RESEARCH**

The Children's Mercy Hospital, the regional pediatric referral center affiliated with the University of Missouri, Kansas City, invites applications for the newly established position of Director of Medical Research. The Director will oversee all medical research activities of the hospital.

Candidates must be an M.D., and/or Ph.D. with demonstrated scientific leadership in an academic research program and demonstrated ability to raise medical research funds.

This position is available immediately. To apply, please send curriculum vitae, reprints of recent publications, a short description of research interests and goals, and the names of three references to:

Search Chairperson, Director of Medical Research
Bradley A. Warady, M.D.
The Children's Mercy Hospital
2401 Gillham Road
Kansas City, MO 64108

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**MEETING**

Rice University
Institute of Biosciences & Bioengineering

**SECOND DE LANGE CONFERENCE**

**Biotechnology: Science, Engineering and Ethical Challenges for the 21st Century**

February 28-March 2, 1994
Rice University Campus, Houston, Texas

**Monday, February 28**

What is the current state of basic research in biotechnology and what opportunities and challenges does it present?

C. Thomas Caskey, Director, Institute for Molecular Genetics, Baylor College of Medicine

Kathleen S. Matthews, Professor and Chair, Department of Biochemistry and Cell Biology, Rice University

Anna Marie Skalka, Director, Institute for Cancer Research, Fox Chase Cancer Center

Alex Wlodawer, Director, Macromolecular Structure Laboratory, Frederick Cancer Research Facility, National Cancer Institute

Daniel E. Kosshak, Jr., Editor-in-Chief, Science Magazine

Barbara Mishkin, Counsel, Hogan & Hartson, Washington, D.C.

John C. Bailar, III, Professor and Chair, Department of Epidemiology and Biostatistics, McGill University

**Tuesday, March 1**

How is biotechnology currently being applied? What are the implications of technology transfer for research?

Michael L. Shuler, Professor of Chemical Engineering, Cornell University

Louis Lasagna, Sackler School Dean and Dean for Academic Affairs, Tufts University School of Medicine

Jerome Schultz, Director, Center for Biotechnology & Bioengineering, University of Pittsburgh

Rebecca Eisenberg, Professor of Law, University of Michigan Law School

José E. Trias, Vice President and General Counsel, Howard Hughes Medical Institute

Neal F. Lane, Director, National Science Foundation

**Wednesday, March 2**

What are the potential future applications of biotechnology and what are the implications of such applications for society as a whole?

M.R.C. Greenwood, Associate Director for Science, Office of Science and Technology Policy, Executive Office of the President

Robert M. Nerem, Institute Professor and Chair for Engineering in Medicine, Georgia Institute of Technology

Savio L.C. Woo, Professor, Department of Cell Biology, Baylor College of Medicine

Ruth Ellen Bulger, Vice President for Scientific Affairs, Henry M. Jackson Foundation for the Advancement of Military Medicine

Gene F. Parkin, Professor and Chair, Department of Civil and Environmental Engineering, University of Iowa

The conference is free and open to the public. However, advance registration is required as space is limited. For information, call Rice University Institute of Biosciences and Bioengineering, (713)527-6034, Fax (713)285-5154. Onsite registration will be held each day, if space permits.
ANIMAL PHYSIOLOGIST

ASSISTANT PROFESSOR. Applications are invited for a tenure-track position in the Department of Biological Sciences at Butler University. The position emphasizes emphasis on high-quality undergraduate teaching with a strong presence in research. The successful candidate will teach a course in mammalian physiology. In addition, all faculty participate in the introductory biology course. An individual research laboratory and start-up funds are provided. Conditions for continuing research are excellent, and generous in-house research funds are available. Candidates must have a Ph.D. degree. Applicants should submit curriculum vitae, transcripts, statement of teaching and research interests, and three letters of reference to: Dr. J. W. Berry, Department of Biological Science, Butler University, 4600 Broadway, Indianapolis, IN 46208. Screening of applicants will begin immediately and will continue until a suitable applicant is found. Butler University is an Equal Opportunity and Affirmative Action Employer.

 PENN STATE FACULTY POSITION IN BIOLOGY

Applications are invited for a tenure-track ASSISTANT PROFESSOR position starting fall 1994. The successful candidate will have training in anatomy or physiology and have primary responsibility for teaching comparative vertebrate physiology. The position is at the rank of assistant professor and expected to develop a vigorous, externally funded research program in an area of strength in the Department of Biology. The Biology faculty research spans molecular evolution, genetics, developmental and cell biology, reproductive biology, vertebrate and plant biology, and ecological physiology. Send a letter of application, including a statement of research and teaching interests, and curriculum vitae, along with names, addresses, and telephone numbers of three references to: Dr. Linda Masson, Box CA, Department of Biology, 208 Mueller Lab, Penn State University, PA 16802-5301. Review of applications will begin in February 1994, or until a suitable candidate is found. An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.

PLANT GENETIC ENGINEERING RESEARCH ASSISTANT PROFESSOR

The Department of Forest Science at Oregon State University seeks an applicant with a Ph.D. to develop systems for high through-put screening of plant populations for specific traits. The position is at the rank of assistant professor and is expected to develop a vigorous, externally funded research program in an area of strength in the Department. The Biology faculty research spans molecular and cellular biology, developmental biology, plant physiology, and plant cellular biology. Send a letter of application including research interests and curriculum vitae to: Dr. Wayne G. Kohn, Department of Forest Science, Oregon State University, Corvallis, OR 97331-7501. Information contact: Prof. Steve Strauss, Telephone: 503/737-6578, FAX: 503/737-1393, E-mail: strauss@fs.orst.edu. Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

DIRECTOR, PROGRAM IN DIABETES

Department of Medicine at Case Western Reserve University (CWRU), University Hospitals of Cleveland and the V.A. Medical Center seek an outstanding investigator (M.D. or M.D./Ph.D.) active in Diabetes Research to develop and direct a program in Diabetes encompassing research, teaching, and patient care. Applications will be accepted from Professor level Resources to recruit 2 or 3 additional faculty will be available. Applicants should submit curriculum vitae and three references to: F. Ismail-Beigi, M.D., Ph.D.; Chair, Program in Diabetes, Department of Medicine, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4951. CWRU is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority groups are encouraged.

ASSISTANT/ASSOCIATE/FULL PROFESSOR, CELL BIOLOGY AND ANATOMY

The Department of Cell Biology & Anatomy, Oregon Health Sciences University, invites applications for a full-time Assistant, Associate or Full Professor. Departmental research is focused on molecular mechanisms of cellular injury and survival with emphasis on the analysis of cell growth and differentiation. We are particularly interested in analysis of oncogene function, regulation of development, and the role of proteins in the regulation of cellular proliferation or the relationship between changes in the cytoskeleton or extracellular matrix proteins. We are seeking candidates with expertise in one of the areas of cell and molecular biology will also be considered. Individuals working with either higher or lower eukaryotes are encouraged to apply. Applicants at the Associate Professor level must have a well-established research program with extramural funding. Interested persons should send curriculum vitae, a statement of research experience by February 28, 1994, to: R. Maurer, Search Committee, Department of Cell Biology and Anatomy, Oregon Health Sciences University, Portland, OR 97201. Oregon Health Sciences University is an Equal Opportunity/Affirmative Action Employer.

ECOLOGIST: Bloomberg University stresses excellence in teaching. Applications for a full-time, tenure-track position to begin fall 1994 at the ASSISTANT PROFESSOR level are invited. Ph.D. in ecological biology. Preference will be given to a community/population ecologist, with field experience in northeastern U.S. forest ecosystems. The applicant should have experience in research on the role of biodiversity in forest, background in biology, earth sciences, and natural history. Primary responsibility will be to teach undergraduate ecology with a laboratory component. Responsibilities include directing undergraduate and master's research, and involvement in undergraduate and graduate courses. Send letter of application, curriculum vitae, off-print trances of undergraduate course work, and three letters of reference by March 1, 1994, to: Search Committee, Biology and Allied Health Sciences, Bloomberg University, Bloomington, IN 47401. Bloomberg University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DEAN FOR RESEARCH

The University of Kansas School of Medicine announces the search for an Associate Dean for Research. The Associate Dean will be assigned the primary responsibility for maintaining and enhancing the research stature of the School and its affiliated Academic Administrators. This position will involve the development of research activities within the School, the Medical Center and the University. The successful candidate must have a record of research accomplishment in an area of biology and applied research, and clinical research, administrative experience in grant acquisition, familiarity with government and non-government grant policies, demonstrated scholarly activities, having had a major NSF or NIH grant within the last five years, and strong interpersonal, organizational and communication skills. Salary will be commensurate with experience. Appointment will allow individual to continue some of his/her research and clinical activities. Applications and nominations should be forwarded to: Daniel Hollander, M.D., Executive Dean, School of Medicine, The University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160-7300. Equal Opportunity/Affirmative Action Employer.

BIOLOGICAL SCIENCE PROGRAM ADMINISTRATOR—The Laboratory of Molecular Systematics, National Museum of Natural History, seeks an individual with a background in evolutionary biology and a strong interest in laboratory management for the position of Administrator. This individual will be responsible for the day-to-day management of the business affairs of the Laboratory, and will supervise an administrative staff. The position is full-time, and the incumbent will be offered a contract from 15 February 1994. U.S. citizenship is required. Send curriculum vitae and letter of application to: Smithsonian Institution, Office of Organization Development, Bldg 920, Room 420, P.O. Box 3709, Washington, DC 20034. Applications are welcome any time. Equal Opportunity/Affirmative Action Title IX Employer.

MANAGER OF R&D IN ISRAEL

Xenograff Technologies, Ltd. is seeking a senior immunologist with 5 + years experience in product development in the pharmaceutical or biotechnology industry to lead its R&D efforts in Revohot. Candidates should have specific experience in monoclonal antibody-based therapeutic products. Contact: President, 2044 Columbus Parkway, Benicia, CA 94510; (707) 747-7010. Fax: (707) 747-7010. Equal Opportunity Employer.

DNA CORE FACILITY MANAGER

A position is available to manage the DNA Microchemical Core Facility (MCF) at San Diego State University. Applicants for this position should have an advanced degree and extensive experience with oligonucleotide synthesizers and automated DNA sequencing. Please submit a resume and request three letters of recommendation to be received no later than February 14, 1994. San Diego State University is an affirmative action equal opportunity employer. Equal Opportunity/Affirmative Action Title IX Employer.

DEAN FOR COLLEGE OF NATURAL SCIENCES: Applicants must hold Ph.D. in a field in the College of Natural Sciences. Responsibilities include developing and implementing an interdisciplinary undergraduate major in computer science; establishing an interdisciplinary graduate program in computer science; developing and implementing an interdisciplinary undergraduate major in computer science and mathematics; and developing and implementing a new computer science major in a computer science and mathematics program. Applicants must have a strong commitment to teaching and scholarship, and record of computer application in teaching and research. Administrative experience at university level preferred. Desired start date: July 1, 1994. Applications should be submitted by February 15, 1994. Additional information and complete application materials may be obtained by calling: Dr. Jeff Beeler, Director, Office of Academic Planning and Policy, Oregon State University, Corvallis, OR 97331-5050. Oregon State University is an Affirmative Action/Equal Opportunity Employer.
Scientific excellence in a progressive, collaborative research environment is a valued part of Amgen's corporate culture. As a global leader in biotechnology, our substantial investment in R&D provides outstanding resources for innovative, self-motivated scientists. Amgen's commitment to significantly expand efforts in developing novel, breakthrough therapeutics has created numerous career opportunities in our

Inflammation Research Group

Research Scientists
(PhD) plus Postdoctoral experience.

Research Associates
(BS/MS) plus Laboratory experience.

Molecular Biology
Experience in PCR, cDNA cloning, hybridization and library construction is required. Knowledge of expression in mammalian cells or E. coli and subsequent gene product characterization is desired.
(Job Code OA-SC-MZ-001)

Cell Biology
Experience in cell culturing, hybridoma generation, characterization of monoclonal antibodies or adhesion and lymphocyte proliferation assays is required.
(Job Code OA-SC-MZ-002)

Biochemistry
Experience in purification, characterization and identification in one or more of the following areas: protein chemistry, carbohydrate chemistry or lipid chemistry is required.
(Job Code OA-SC-MZ-003)

Biomolecular Assays
Experience in microplate assays, antibody purification and tissue culture. Knowledge of mammalian cell expression and molecular biology is desired.
(Job Code OA-SC-RN-003)

Cell-based Assays
Experience in mammalian cell adhesion assays, cell separations, cell culture and transfection required. Must have experience in state-of-the-art molecular biology techniques, including PCR, Northern blotting and site-directed mutagenesis.
(Job Code OA-SC-RN-002)

LIMS and Robotics
Database and programming expertise and experience commensurate with information management in a highly automated laboratory setting required.
(Job Code OA-SC-RN-005)

Assay Automation Development
Substantial experience in assay design and development (ELISA, RIA, cell activation, cell adhesion). Experience in assay automation and high-throughput assay systems highly desirable.
(Job Code OA-SC-RN-006)

Carbohydrate Chemistry Laboratory
Synthetic organic chemist experienced in carbohydrate synthesis; relevant analytical experience; or experience in molecular modeling and knowledge of interaction between biomolecules.
(Job Code OA-SC-AV-005)

Please FAX OR mail your resume/curriculum vitae to:
FAX: (805) 447-1985, Amgen Inc. Staffing, Job Code (See Above), Amgen Center, Thousand Oaks, CA 91320-1789. For additional information regarding Amgen's recruitment process, please call (805) 447-4150. Please, principals only.

EEO-Affirmation Action employer M/F/D/V.
FOR RESEARCH SCIENTISTS

Oncogene Science is continuing to expand its drug discovery Research and Development Program. Oncogene Science has established collaborations with a number of major pharmaceutical companies by combining state-of-the-art molecular biology with sophisticated laboratory automation to lead the way in the discovery of novel therapeutic agents. We are looking for Ph.D. scientists with strong communication skills to work effectively within multidisciplinary teams, including molecular biology and assay development, robotics, medicinal and natural products chemistry, pharmacology and preclinical areas.

DIRECTOR OF CHEMISTRY
We are now seeking a senior scientific manager with several years of experience to build and direct the company’s emerging chemistry effort. This person will initially manage a group of four scientists working in natural products chemistry and begin directing a number of outside collaborations in the areas of combinatorial and medicinal chemistry. The individual will also work closely with Oncogene’s industry-leading high throughput drug screening facility with responsibility for initial lead discovery.

PROGRAM MANAGER, Atherosclerosis/Thrombosis
This senior scientist will lead a collaborative research program with a major US pharmaceutical company. Applicants must have broad experience and knowledge in the area of atherosclerosis. The initial focus is to develop novel agents for modulating lipoprotein metabolism. Excellent written and oral communication skills and the ability to lead people are also essential. A working knowledge of molecular biology is highly desirable.

SENIOR SCIENTIST, CANCER
This person will help lead the Company’s collaboration with a major US pharmaceutical company to develop therapeutic products for the treatment of cancer. The successful candidate will have an outstanding scientific track record with 5+ years of relevant experience in the field of cancer research, preferably pharmacology. A thorough knowledge of the molecular basis of cancer is essential. This ideal candidate will also have a good understanding of preclinical drug development.

SCIENTIST, IMMUNOASSAY DEVELOPMENT
We seek a Ph.D. or equivalent with 1-3 years of industrial or academic experience in ELISA development. Responsibilities will include development and validation of immunoassays for use in drug discovery and development of improved immunoassay technology. The ideal candidate will have skills in enzyme-antibody conjugation, immunohistochemistry and other techniques in protein biochemistry. An interest in novel detection methods for nucleic acid and antigen is a plus.

SCIENTIST/SENIOR SCIENTIST, NATURAL PRODUCTS CHEMISTRY
We are currently expanding our efforts in natural products and medicinal chemistry and are looking for a motivated individual to join this team. The successful candidate will have a Ph.D. in natural products chemistry with proven expertise in assay guided fractionation and structural elucidation techniques. Oncogene Science offers superb opportunities for career development in a highly participative environment. Interested applicants should send or fax their resumes, noting the appropriate position, to: Oncogene Science, Inc., 106 Charles Lindbergh Blvd., Uniondale, NY 11553-3649. Fax: (516) 222-0114. An Equal Opportunity Employer M/F/H/V.

Graduate Program in Molecular & Cellular Biology
The University of Illinois at Chicago
College of Medicine

The Molecular & Cellular Biology Training Program provides interdisciplinary training. Over 40 faculty members from different departments participate in the program. Students can choose from many possible areas of research, including:

- Cell Growth & Differentiation
- Cell Structure
- Developmental Biology
- DNA Structure & Function
- Gene Regulation
- Immunology
- Molecular Biology of Cancer
- Molecular Endocrinology
- Protein Structure & Function
- Signal Transduction

Principal Participating Departments:

- Biochemistry
- Cell Biology & Anatomy
- Genetics
- Microbiology & Immunology
- Pharmacology
- Physiology & Biophysics

Stipends of $14,000 are available to all doctoral students in the form of tuition-free fellowships. Interested candidates are encouraged to seek application and information from:

MCBTP
C/o Heidi Hamm
Dept. of Physiology and Biophysics
835 S. Wolcott, MC 901
Chicago, IL 60612

Translating Innovative Ideas Into Powerful Results

SCIENTISTS -

Discovery Research

You will be involved in the initiation of new interactive programs to develop novel therapeutics in immunologically relevant diseases and will develop and implement experimentation on immunomodulators and peptide-based vaccines. Qualifications: Ph.D. with a minimum of 2-5 years' relevant experience in immunology. Cellular immunology with expertise in activation mechanisms and in vivo models of transplantation and antibody responses required. Knowledge of signaling pathways at a biochemical and molecular level a plus. Dept. SD1.

Our steady progress has established us as a dynamic and rapidly expanding biopharmaceuti- nal leader: our key industry partnerships and first-rate team of scientific professionals are tak- ing us even further. We offer exceptional opportunities for growth, support for your career development, and rewards that include a competi- tive compensation and benefits package. Please send your CV, referencing the department to: Human Resources Department, Immulogic Pharmaceutical Corporation, 610 Lincoln Street, Waltham, MA 02154. An equal opportunity employer. Principals only.

Immulogic Pharmaceutical Corporation
The clear relationship between business and science.
**Biopharmaceutical R&D Postdoctoral & Assistant Scientist Positions**

Interferon Sciences, Inc. is a biopharmaceutical company committed to the challenge of developing antiviral therapeutic products. The R&D Department has positions open in the following primary areas:

**Cell Biology** - Biologists with experience in mammalian cell culture, cytokine bioassay, immunocassay, production and purification of antibodies. (RD-94CB)

**Protein Biochemistry** - Biochemists with experience in characterization and purification of proteins, SDS-PAGE, Western blot, HPLC, affinity chromatography and carbohydrate analysis. (RD-94FB)

**Analytical Biochemistry** - Biochemists with experience in analytical protein chemistry, protein sequencing, amino acid composition analysis, peptide mapping and protein structure analysis. (RD-94AB)

**Molecular Biology** - Molecular biologists with experience in PCR, DNA sequencing, DNA/RNA isolation and detection, subcloning and virology. (RD-94MB)

IIS offers excellent compensation and benefits packages. Qualified candidates should send his or her resume, with the appropriate position code, to: PERSONNEL DEPT. INTERFERON SCIENCES, INC. 783 JERSEY AVENUE, NEW BRUNSWICK, NJ 08901. No phone calls please.

**INTERFERON SCIENCES, INC.**

An Equal Opportunity Employer

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**POSTDOCTORAL TRAINING IN CELL AND MOLECULAR BIOLOGY OF MALE REPRODUCTION**

The Center for Biomedical Research of The Population Council offers postdoctoral training in various aspects of male reproductive physiology. Fellowships are provided by an NIH-supported Training Program. Research interests of our training faculty include:

- Milan Bagchi, Ph.D. - Transcriptional regulation by nuclear hormone receptors; thyroid and retinoid hormone action.
- C. Wayne Bardin, M.D. - Hormonal control of testicular function; contraceptive development.
- James F. Catterall, Ph.D. - Regulation of gene expression by androgens; structure-function of sperm membrane proteins.
- Ching-Ling C. Chen, Ph.D. - Transcriptional control of testicular expression of the inhibin/activin and clusterin genes.
- C. Yan Cheng, Ph.D. - Mechanisms of cell-cell interaction in the testis; Sertoli cell function.
- Glen L. Gunsalus, Ph.D. - Structure-function analysis of extracellular steroid binding proteins.
- Matthew P. Hardy, Ph.D. - Hormonal control of Leydig cell differentiation; expression of steroidogenic enzymes.
- Carl Monder, Ph.D. - Biochemical and molecular analysis of steroid metabolizing enzymes.
- Patricia L. Morris, Ph.D. - Intratesticular regulators of Leydig cell function; mechanisms of Sertoli-germ cell interaction.

The Center for Biomedical Research is located on the campus of Rockefeller University and provides excellent facilities and a stimulating postdoctoral research environment. Applicants must be U.S. citizens or Permanent Residents. Applications from women and minorities are encouraged. Please send curriculum vitae and names and addresses of three references to The Fellowship Secretary-NIH Training Program, The Population Council, Center for Biomedical Research, 1230 York Avenue, New York, NY 10021, USA. Indicate in your cover letter the name of the faculty member(s) of interest.

An EOE/AA Employer M/F

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Cell Therapeutics, Inc. is an innovative biopharmaceutical company focused on the design and development of a variety of small molecule drugs that treat significant human diseases. We currently have the following opportunity available.

**GROUP LEADER/SENIOR SCIENTIST CELLULAR IMMUNOLOGY**

CTI is developing synthetic, orally-active phospholipid signaling inhibitors that block IL-2 and CD28-mediated signal transduction. The successful candidate will act as a team leader for an aggressive development program. This position requires a Ph.D/MD with 5+ years of academic or industry experience in cellular immunology; a distinguished record of accomplishments; direct experience with animal model of autoimmune diseases and proven administrative skills.

CTI’s location on Puget Sound in downtown Seattle provides spectacular views and easy access to all major metropolitan attractions. We offer a competitive compensation and benefits package as well as an environment where your contributions can make a significant difference. Please send or fax your CV referencing Job #GR194B to:

**Human Resources**

Cell Therapeutics, Inc.
201 Elliott Avenue West, Suite 400
Seattle, WA 98119
FAX: (206) 264-6206
Equal Opportunity Employer
JOIN THE LIFE SCIENCES REVOLUTION

CLINICAL DIAGNOSTICS
(18 OPEN POSITIONS)

The Clinical Diagnostics Group will pursue the development of diagnostic tests which will incorporate innovations in both instrument and reagents technology. These systems will incorporate new separation and detection formats, based on PerSeptive technologies, that are expected to result in substantial improvements in speed, precision, sensitivity and cost. Clinical Diagnostic tests, based on patented technologies in flow-through immunoassays, capillary electrophoresis, mass spectrometry and perfusion chromatography, are currently under development. These systems will not only detect and measure target analytes currently measured by existing diagnostic systems, but will also incorporate analytes related to the rapidly emerging genetic testing market. A significant number of positions are available for both experienced and entry level Ph.D. and B.S./M.S. scientists determined to advance the state-of-the-art in clinical diagnostics. Openings exist for scientists in the following areas:

- Immuno Chemistry
- Clinical Chemistry
- DNA Probes
- Electrophoresis (Capillary Electrophoresis)
- Bioanalytical Chemistry
- Clinical HPLC
- Clinical Mass Spectrometry

(Dept. CD1/21)

TARGET BASED DRUG DISCOVERY
(15 OPEN POSITIONS)

PerSeptive Biosystems is pursuing new methodologies for the selection and identification of new therapeutic lead compounds to significantly increase productivity in drug discovery. Using receptors or other biological targets, the Target Based Drug Discovery team will screen libraries of biological and chemical compounds to isolate, identify, and characterize new therapeutic leads. Using PerSeptive's high throughput separations technologies and automated instrumentation systems. For members of this multidisciplinary team developing innovative methods for drug discovery, we are seeking highly motivated scientists for positions in these areas:

- Molecular Biology and Cell Biology
- Protein Chemistry/Receptor Biochemistry
- Medicinal Chemistry and Drug Design
- Bioanalytical Chemistry
- Mass Spectrometry

The positions available range from entry-level to those requiring 5-10 years’ industrial experience, and require a Ph.D. or equivalent experience in the appropriate scientific discipline. Positions are also available as Research Associates, and require a B.S./M.S. degree, plus experience in the designated disciplines.

(Dept. DD1/21)

DNA/PROTEIN SEQUENCING GROUP
(10 OPEN POSITIONS)

Continuing cutting edge research aimed at understanding biological mechanisms at a molecular level requires major advances in the art and science of sequencing proteins and oligonucleotides. The DNA/Protein Sequencing Group will develop methods and instruments to perform high speed sequence analyses of biopolymers, using high resolution and high sensitivity mass spectrometers and innovative separation technology. The scientists will collaborate with their colleagues in the PerSeptive Mass Spectrometry Division, Vestec Products, as well as other external research groups. PerSeptive believes that its mass spectrometry and separations technologies will substantially increase sequencing productivity at the gene and protein level and will have an accelerating effect on biomedical research targeted at better diagnostics and therapeutics. Positions exist within the DNA/Protein Sequencing Group at the Ph.D. and Research Associate levels for both entry-level and experienced scientists with backgrounds in:

- Protein Chemistry
- Protein and/or Oligo Sequencing
- Oligonucleotide Chemistry
- Bioanalytical Chemistry
- Mass Spectrometry

(Dept. DNP51/21)

PEPTIDE AND OLGONUCLEOTIDE SYNTHESIS
(7 OPEN POSITIONS)

The continuing explosion in basic and therapeutic research utilizing peptides, proteins and oligonucleotides requires new approaches to synthesis and purification of these biopolymers. The Biomolecule Synthesis Group will develop new methods of synthesis, coupled with innovative instrumentation for the synthesis and purification of peptides and oligonucleotides, based on the superior mass transport characteristics of PerSeptive's Poros media and its instrumentation platforms. The synthesis supports and instruments that this group will develop will substantially reduce the cost, while improving the quality and speed, of DNA and peptide synthesis, and enable the large scale manufacture and commercialization of biomolecule based therapeutics. Openings exist within the Biomolecule Synthesis Group at the Ph.D. and B.S./M.S. levels for both entry-level and experienced scientists with backgrounds in:

- Peptide Synthesis Chemistry
- Oligonucleotide Synthesis Chemistry
- Organic Chemistry
- Chemical Engineering/Scale-up
- Bioanalytical Chemistry

(Dept. POS1/21)
Over the last decade, fundamental molecular biology discoveries have led to the first phase of the life sciences revolution that has produced almost 20 FDA-approved biotherapeutics, a $4 billion immuno-diagnostics industry and potential opportunities in genetic testing, gene therapy and structure-based drug discovery. The tools necessary to allow the life sciences revolution to meet its full commercial potential have not kept pace with the discoveries of molecular biologists. PerSeptive Biosystems has developed a new generation of tools that fundamentally improve productivity in life sciences research, development and manufacturing through the application of core technologies in Perfusion Chromatography®, ImmunoDetection™, Mass Spectrometry, Capillary Electrophoresis and Rational Surface Design™.

Our core business focuses on providing the biopharmaceutical industry with purification and analysis tools to develop and manufacture new drugs cost effectively and time efficiently. We have designed an integrated product portfolio to make substantial improvements in productivity at every point in the drug development process.

Recently, we have completed a $58 million R&D financing to pursue the application of our core technologies to related life science opportunities. We will be focusing on the development of new products for Clinical Diagnostics, Systemic Screening of Libraries of Chemical and Biological Compounds for Therapeutic Drug Discovery, DNA and Protein Sequencing using Mass Spectrometry, and DNA and Peptide Synthesis Systems using our Proprietary Flow-through Media and Systems.

We have grown four-fold over the last year from 60 to 250 people. In that time our annual revenues grew from $5MM to $18.7MM with our first profitable quarter ending in September 1993. This new R&D financing will double the size of our R&D organization from its current staff of 80 scientists and engineers.

**MATERIALS DEVELOPMENT AND SURFACE CHEMISTRY**

(3 OPEN POSITIONS)

The Materials and Surface Chemistry Group at PerSeptive is responsible for the development of new types of Chromatography and synthesis supports, and characterization of new forms of surface chemistries to effect separations of biomolecules. Rational surface design approaches are being used to produce synthetic, antibody-mimic surfaces for separations and diagnostic applications. Openings currently exist in this group for both Ph.D. and B.S./M.S. level scientists with experience in:

- Polymer Chemistry and Synthesis
- Surface Chemistry
- Analytical Biochemistry

(Dept. MDSC1/21)

**OLIGONUCLEOTIDE PURIFICATION**

(3 OPEN POSITIONS)

The BioProcess Development group is engaged in a wide variety of bioseparations problems ranging from discovery of novel applications of PerSeptive’s POROS perfusion chromatography technology to development of scalable processes for our collaborations with the world’s leading biopharmaceutical companies. We are looking for talented separations scientists at the Ph.D., M.S. and B.S. levels with experience in the following areas:

- Purification of Oligonucleotides
- Purification of Proteins and Peptides
- Analytical Biochemistry
- Manufacturing Scale-Up

(Dept. OP1/21)

**NEW INSTRUMENTATION DEVELOPMENT**

(6 OPEN POSITIONS)

The Instrumentation Group acts as a central development group in collaboration with other PerSeptive R&D groups in Separations Science, Biomolecule Synthesis and Sequencing, Clinical Diagnostics, and Mass Spectrometry, to develop, together with the Software Engineering Group, prototypes of new instrument systems and platforms to expand PerSeptive’s state-of-the-art instrument workstations. The members of this group work in a fast paced, challenging R&D environment which is developing the tools for the Life Science Revolution. Openings currently exist within this group for experienced individuals with a B.S./M.S. degree in:

- Electrical Engineering
- Mechanical Engineering

(Dept. NID1/21)

**MASS SPECTROMETRY FOR LIFE SCIENCES**

(6 OPEN POSITIONS)

The Mass Spectrometry Group will collaborate closely with PerSeptive’s Mass Spectrometry Division, Vestec Products, (based in Houston), to identify and develop new applications of mass spectrometry in the Life Sciences. PerSeptive is committed to building the most advanced biological Mass Spec Group in the industry. The scientific thrust of this group is the use of mass spectrometry in the biomedical and life sciences, while instrument development is conducted at Vestec.

The members of this group will work with other PerSeptive R&D groups, and are also expected to have significant external interactions. While the majority of openings involve research that uses mass spectrometry, openings also exist for those individuals interested in the design and modification of mass spectrometers and their interfaces to advanced separations instruments. Positions exist for experienced Ph.D. and B.S./M.S. level scientists who are interested in a challenging environment advancing the state-of-the-art in mass spectrometry and its life sciences applications.

(Dept. MS1/21)

**PROJECT MANAGEMENT**

A project management position is available, reporting to the Vice President of R&D. The project manager will work with senior R&D management to prepare technology plans, monitor progress, and report to senior PerSeptive management on major initiatives in clinical diagnostics, biomolecule synthesis and sequencing, therapeutics, and life sciences instrumentation, including mass spectrometry. The position requires excellent interpersonal and communication skills, and the ability to easily function in a rapidly growing and changing environment. Facility with commonly used project management tools is required. The successful candidate will have a Ph.D. in the Life Sciences, with an M.B.A. preferred, and a minimum of 3 years’ successful experience in project management in the life or biomedical sciences.

(Dept. PM1/21)

We seek out innovative thinkers and reward them with opportunities for both autonomy and collaboration, as well as with an outstanding compensation/benefits package. Send your resume, referencing the appropriate department, to Human Resources:

PerSeptive Biosystems, Inc.
38 Sidney Street
Cambridge, MA 02139

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Postdoctoral Research Scientists

Upjohn Laboratories, a division of The Upjohn Company, has exciting opportunities for postdoctoral research scientists in the following areas:

Molecular and Cell Biology (Specialty Code 100-PRS)

- **Activation of dopamine receptor subtypes.** Candidates with experience in molecular biology, biochemistry, molecular pharmacology, and cell biology are encouraged to apply.

- **Modulation and function of calcineurin in T cells using a combination of molecular biology and biochemical approaches.** Applicants should have a strong background in molecular biology, including PCR analysis and cDNA cloning. Previous biochemistry and cell biology experience also desirable.

- **Ion Channel Electrophysiologist.** Extensive experience on whole-cell and single-channel recording is essential. Successful candidate is expected to perform experiments on ion channel expression and regulation in Xenopus Oocytes, in juxtaglomerular cells and mamalian kidney, in coronary smooth muscle cells and in heart cells.

- **Herpes simplex virus capsid assembly and DNA packaging by both genetic and in vitro approaches.** Experience in molecular biology, biochemistry and virology required.

- **Molecular mechanisms of virulence gene regulation in intracellular bacterial pathogens, with particular emphasis on environmental regulation of virulence gene expression.** Interest in microbial pathogenesis, and experience with DNA binding proteins, protein-protein interactions, and microbial genetics.

Medicinal Chemistry (Specialty Code 201-PRS)

- **Synthesis of novel antibacterial agents.** This position requires a strong background in the multistep total synthesis of complex molecules. Experience in the use of organometallic methods for organic synthesis is desirable.

- **New applications of microbial oxidation methods to organic synthesis.** A strong background in organic synthesis and isolation/structure determination is required. Additional experience with molecular modeling and/or enzyme reaction is desirable.

Adhesion Biology (Specialty Code 101-PRS)

- **Role of the redox-sensitive nuclear transcription factor NF-kB in the activation of endothelial cell adhesion molecule gene transcription.** Applicants should have a strong background in cell biology or biochemistry, with emphasis on skills in molecular biology.

In addition to an excellent salary and benefits package, Upjohn Laboratories offers a stimulating, multidisciplinary research environment at our modern facilities located in Kalamazoo, a southwestern Michigan community located midway between Chicago and Detroit. Our region provides an outstanding mix of cultural and recreational pursuits and a reasonable housing cost market. For consideration, please forward your C.V. and a statement of research interests (refer to the appropriate Specialty Code) to: The Upjohn Company, Corporate Recruiting, 7000 Portage Road, Kalamazoo, MI 49001. Equal Opportunity Employer.
Applications from international scientists in China or abroad who have achieved a degree of international recognition in their field, preferably in developmental biology, cell biology, molecular biology or neurobiology are invited for positions as research group leaders.

The successful applicants will be expected to conduct fully independent, original and dynamic research programs. The positions possess full scientific and economic independence and are limited to a maximum of five years. They are paid according to Chinese regulations; in addition, special social benefits, a supplement in foreign currency and travel grants are offered. The groups will have modern laboratory facilities and funding for scientific and technical co-workers. The operating expenses include funds in foreign currency.

Applications, including a tabular curriculum vitae, a list of publications with reprints of three selected papers, a description of major scientific achievements and a summary of future research plans, should be submitted in English by March 15, 1994, to:

Prof. Uli Schwarz (Director)
Max-Planck-Institut für Entwicklungsbiologie
Postfach 21 09, 72011 Tübingen/Germany, Fax No. +497071-601447

A group of finalists will be invited to present their projects at a symposium in Shanghai in the second half of May. Travel and accommodation expenses will be covered.

THE UNIVERSITY OF GENEVA (SWITZERLAND)

FACULTY OF MEDICINE

Is seeking qualified candidates for a position of:

PROFESSOR OF MEDICINE

Future head of the Division of Clinical Diabetology Department of Medicine.

The candidates should demonstrate ability to direct a research program and to ensure pre- and post-graduate teaching.

The interested persons should write to:

The Dean of the Faculty of Medicine
Centre medical universitaire
1211 Geneva 4
Switzerland

Additional information can be obtained on request.

KAROLINSKA INSTITUTET

Postdoctoral/Research Associate position
Nutritional toxicology, DNA adducts

The Department of Medical Nutrition is a university department within the Karolinska Institute with a staff of about 100 persons (scientists, students, technical and administrative staff). The department is situated within the Novum Research Center in which around 300 scientists are involved in studies on various aspects of cell biology, molecular biology and toxicology. A high percentage of the staff are foreign scientists. The postdoctoral position is intended for studies on the metabolism of heterocyclic amines and the formation of DNA adducts involving heterocyclic amines.

The postdoctoral position is initially for two years with possibility for extension up to four years. Preference is given to applicants with experience of DNA adduct measurements, HPLC-techniques and massspectrometry.

Applications should be sent to Professor Jan-Åke Gustafsson, Department of Medical Nutrition, Karolinska Institute, Huddinge University Hospital, Novum, S-141 86 Huddinge, SWEDEN. Curriculum Vitae, publication list and two references should be given.

Minority Medical Faculty Development Research Fellowships

The Minority Medical Faculty Development Program, sponsored by the Robert Wood Johnson Foundation, has up to 12 positions beginning in 1995. The program offers postdoctoral research fellowships to physicians from under-represented minority groups as defined by the Association of American Medical Colleges (blacks, Mexican-Americans, Native Americans, and mainland Puerto Ricans who have completed at least post-secondary education on the mainland). These individuals must have demonstrated superior academic and clinical skills and must be committed to careers in academic medicine with special interest in BIOMEDICAL RESEARCH, CLINICAL INVESTIGATION OR HEALTH SERVICES RESEARCH. The fellowship supports four consecutive years of research training. Each Fellow will receive an annual stipend of up to $50,000 with 5% increases per year and a fixed $25,000 annual grant toward support of research activities.

Applicants must be U.S. citizens and must have completed formal clinical training by the projected time of entry into the program. The application deadline is April 15, 1994; applications must be requested by March 22, 1994.

For further information and application materials, contact: James R. Gavin III, M.D., Ph.D., Program Director, Minority Medical Faculty Development Program, 4733 Bethesda Avenue, Suite 350, Bethesda, MD 20814. Telephone (301) 913-0210.
Equal opportunity in employment is University policy

Lecturer in Entomology
(Academic Level B) Tenurable
Department of Entomology

The Department of Entomology at The University of Queensland seeks applications for the position of Lecturer (tenurable) in Entomology. Minimum qualifications for the position include a PhD in Entomology from a recognised institution and three years post-doctoral experience. Applicants must demonstrate a commitment to teaching all levels of Entomology and show strong basic skills that include biology and systematics of economically important insects. The appointee will teach subjects in Immature Insect Taxonomy, Systematic Theory and a course reflecting the appointee’s research expertise. Applicants should display a strong research program in areas which have an application to agriculture.

Salary will be in the range of A$41,000 - A$48,688 per annum, dependent on qualifications and experience.

Applicants should forward an original plus eight copies of a curriculum vitae to the Director, Personnel Services, The University of Queensland, Qld 4072 Australia. The CV should include a one-page statement of professional goals, a list of all publications and the names, addresses and fax numbers of three referees qualified to judge the applicant’s potential in teaching and research within a university environment. For further information, please contact Professor Gordon Gordh, Head of Department, on +61 7 365-2271.

Closing date: 28 January 1994
Please quote Reference No. 56793.
VISITING INSTRUCTOR AND LABORATORY COORDINATOR, BIOLOGY, RUSH MEDICAL COLLEGE

Non-tenure-track for 1994-95 at John Carroll University, a Catholic and Jesuit University, offering B.S., M.S. and M.A. degrees. Position possibly renewable twice. Required: Ph.D. in Biological Chemistry, Biochemistry, Organic Chemistry or a related area. The successful applicant will have a major's-level freshman biology (Zoology and Botany topics) and to teach one or more non-majors biology courses to be the Laboratory Coordinator for freshman- and sophomore-level courses (12 credit hour load per semester). Submit a letter of application, curriculum vitae, statement of teaching philosophy and 3 letters of recommendation to: E. J. Skeoch, Department of Biology, John Carroll University, University Heights, OH 44118. An Equal Opportunity/Affirmative Action Employer; women and minorities encouraged to apply.

FACULTY POSITION IN DRUG DELIVERY/DRUG TRANSPORT TECHNOLOGY, COLLEGE OF PHARMACY AND ALLIED HEALTH PROFESSIONS, WAYNE STATE UNIVERSITY

The Department of Pharmaceutical Sciences is seeking candidates for three positions available immediately in Drug Delivery/Drug Transport Technology with a focus on molecular and biochemical aspects of drug delivery mechanisms, including gene therapy utilizing viral and non-viral vectors, cell and biological functions of transport/carrier proteins. Candidates are expected to interface with research programs at the cellular/molecular level in the Department and the University. Persons with demonstrated expertise in applied biotechnology are especially urged to apply. Candidates will be considered to establish a funded research program. Teaching at both the graduate and undergraduate levels is also expected. Applicants should possess a Ph.D. degree in pharmacological, pharmaceutical, biomedical sciences, immunology, or related disciplines and have postdoctoral experience. Rank and salary commensurate with experience. Qualified candidates should send curriculum vitae and the names and addresses of three references to: Fusao Hiranita, M.D., Ph.D., Interim Chair, Department of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professions, 528 Shapero Hall, Detroit, MI 48202. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

FACULTY POSITIONS IN MOLECULAR CELL BIOLOGY AND GENETICS, RUSH MEDICAL COLLEGE

The Departments of Pharmacology and Immunology/Microbiology at Rush Medical College invite applications for faculty members using molecular biological approaches to address one of these broad areas: inflammation biology, vascular biology, or lung biology. Rush Medical College is part of a large medical center with ample opportunities for collaborations and readily available clinical materials. The Departments of Pharmacology and Immunology/Microbiology have strong research programs in vascular endothelial and lung cell biology, acute phase reactants, HIV immunology, cellular immunology, molecular virology and allergy. Candidates for a tenure associate or full Professor position must have a history of publication and extramural funding, be capable of developing an extramural research program, and be interactive/collaborative with other investigators in the medical center. Candidates for a tenure-track Assistant Professor position must have or expect to establish a funded research program in a modern area of cellular, molecular or developmental biology and to participate in teaching first-year medical and doctoral students. Starting date negotiable. Women and minorities are encouraged to identify themselves. Send curriculum vitae, a description of current and future research plans, and have three letters of recommendation sent independently by March 1, 1994, to: Dr. Charles L. Hackett, Chairman, Search Committee, Rush Presbyterian-St. Luke's Medical Center, 1313 East Congress Parkway, Chicago, IL 60612. Applications must be received by April 1, 1994. Rush-Prebyterian-St. Luke's Medical Center is an Equal Opportunity/Affirmative Action Employer.
Protein Formulation Chemist
San Francisco Bay Area

Nicoderm®, Procardia XL®, Duragesic®, Estraderm®...some of the most recognizable products in the pharmaceutical industry. We’re ALZA, the company that developed these popular products. If you would like to participate in the most exciting breakthroughs in pharmaceutical therapy, join ALZA today. We’re currently seeking an experienced Protein Formulation Chemist for our Biological Sciences department.

Here’s your chance to utilize your 7+ years’ experience in formulation development within the pharmaceutical industry. You will develop new, innovative formulations for proteins and peptides in drug delivery system pharmaceuticals; design methods used to evaluate protein formulations under experimental conditions; and provide the scientific/project leadership needed to create/modify new drug formulations for therapeutics.

The preferred candidate will have a PhD in Pharmaceutical Chemistry, Pharmacy, Chemical Engineering, Biochemistry, Protein Chemistry or equivalent. We require demonstrated expertise in maintaining the functional activity of isolated proteins and peptides, as well as a solid background with analytical methods to characterize formulation stability. Knowledge of container compatibility, chemical modification and regulatory issues are necessary; experience with protein lyophilization is helpful.

Please send your resume to ALZA. Human Resources, 950 Page Mill Rd., P.O. Box 10950, Palo Alto, CA 94303-0902. FAX (415) 494-5151. Or call (415) 494-5319 or our TDD line at (415) 494-5003. We are pleased to be an equal opportunity employer and encourage applications from qualified persons with disabilities. All trademarks are registered to their respective companies.

ALZA

FACULTY POSITION IN THE
DEPARTMENT OF NEUROSCIENCES
CLEVELAND CLINIC
FOUNDATION
RESEARCH INSTITUTE
Molecular Biology of Myelination

The newly established Department of Neurosciences seeks an outstanding candidate to fill a faculty position at the Assistant, Associate, or full Staff level. Applicants must have a Ph.D. and/or M.D. and an active independent research program. Individuals must utilize state-of-the-art techniques to investigate cellular and molecular aspects of myelination in the central and peripheral nervous system with a focus on axon/glia signalling, transcriptional factors, transgenic technology, dysembryogenesis, and demyelinating diseases. Excellent departmental facilities and generous start-up funds are available. The Department of Neurosciences is housed in the Health Sciences Building, along with the Departments of Cell Biology and Molecular Biology. Opportunities for interaction with clinical Neurosciences departments are plentiful. Candidates should submit a curriculum vitae, a list of publications, a brief statement of research interests, and three letters of reference to: Search Committee, Department of Neurosciences, NC20, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR
Department of Zoology
The University of British Columbia

Applications are invited for a tenure-track position at the Assistant Professor level in the Department of Zoology, University of British Columbia. Appointment may be considered at a higher rank for a senior woman with exceptional qualifications. Salary will be commensurate with education and experience.

The Department of Zoology currently comprises 36 faculty members, approximately 35 postdoctoral fellows and research associates, and 140 graduate students. Preference will be given to candidates with at least 2 years' postdoctoral experience and with demonstrated excellence in research that complements the present strengths in the department. We require an animal population geneticist with strong theoretical skills. Experience with molecular biology approaches to this discipline will be considered an additional asset. The appointee will be expected to develop a strong research program, and teach in appropriate undergraduate courses, including biostatistics. Starting date will be January 1 or July 1, 1995. Appointment is subject to final budgetary approval.

Closing date for application is June 1, 1994.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. UBC welcomes all qualified applicants, especially women, aboriginal people, visible minorities, and persons with disabilities.

Curriculum vitae, 3 letters of reference, and a brief outline of research interests should be submitted to:

Dr. J.E. Phillips
Head, Department of Zoology
University of British Columbia
3354-6379 University Boulevard
Vancouver, B.C. CANADA V6T 1Z4
Fax: (604) 822-2416

Sterling Winthrop Pharmaceuticals Research Division is the worldwide pharmaceutical research and development organization of Sterling Winthrop Inc. Our Collegeville, PA facility seeks a

SENIOR RESEARCH INVESTIGATOR
Lab Animal Resources

This senior level scientist will lead the drug safety pharmacology program including its integration for research projects, selection of studies and assays, interpretation of results, report documentation, and assurance of appropriate conduct of all aspects of this program. Additionally, this scientist will lead the animal models program providing leadership in the development and application of suitable in vivo and in vitro models in comparative medicine for ongoing research projects. This position serves as the focal person for worldwide application of both programs.

Requirements include a Ph.D. in pharmacology or a related biological discipline. An individual with a dual degree of Ph.D. and veterinarian medicine (DVM/VMD) is preferred. Board certification is advantageous. Candidate should have 2 or more years experience in a biomedical research environment and have experience in scientific presentations and publications.

At Sterling Winthrop, you’ll enjoy a highly competitive salary and a comprehensive and flexible benefits package. For confidential consideration, forward your resume and salary requirements to:

Sterling Winthrop Pharmaceuticals Research Division
A Division of Sterling Winthrop Inc.
A Subsidiary of Eastman Kodak Co.

Human Resources
Sterling Winthrop PRD
Mail Code GV-9
Position 745-93-JRC
1250 S. Collegeville Rd.
P.O. Box 5000
Collegeville, PA
19426-0900

Equal Opportunity Employer
M/F/D/V

A Ph.D. in Molecular Genetics, Microbiology, or Biological Chemistry is required for a postdoctoral fellowship in the laboratory of Michael Miller, Hawaii. Responsibilities include isolation and characterization of lipoprotein lipase, a multifunctional enzyme with essential functions in the digestion and intracellular transport of dietary lipids. Position available immediately. Send letter of interest, curriculum vitae, and three letters of recommendation. Excellent salary, benefits, and research facilities available. University of Hawaii, Honolulu, HI 96822. Letter of application and reference letters to: Michael Miller, Hawaii, MD. 601 North Mission Road, Suite 134, Honolulu, HI 96817.
Postdoctoral Research at The Wistar Institute

The Wistar Institute is seeking Postdoctoral applicants interested in Molecular Genetics, Molecular Virology, Cell & Developmental Biology, Cell & Molecular Immunology, and Structural Biology. Fellows can anticipate a stimulating and challenging experience in an environment characterized by strong, interdisciplinary collaboration and state-of-the-art biotechnology.

Wistar is an independent, non-profit biomedical research institution with close collaborative relationships with the University of Pennsylvania and other major research and clinical organizations within the Philadelphia region. The Wistar Institute is an NIH-designated Basic Cancer Research Center.

For more information, contact: Coordinator of Research Training, THE WISTAR INSTITUTE, 3601 Spruce Street, Philadelphia, PA 19104. Interested Postdoctoral applicants are requested to send a Curriculum Vitae and the names of three (3) references. EOE, M/F/D/V. Minority candidates are strongly encouraged to apply.

Diversity in Products. Diversity in People.

Syntex is a leading international healthcare company involved in the research, development, and manufacture of pharmaceutical products and medical diagnostic systems. Consider this exceptional opportunity in our Discovery Research department in Cardiovascular Pharmacology at our San Francisco Bay Area headquarters.

Biologist

In this senior position, you will plan, conduct and interpret pre-clinical in vivo experiments to study the effects of novel drugs on cardiovascular and/or gastrointestinal functions. You will be involved with all aspects of the research project, including surgery. To qualify, you will need 3+ years of research experience conducting pre-clinical experimentation, involvement in planning and interpreting research projects, and a minimum of a BS, or equivalent experience.

Syntex offers unique professional challenges, opportunities for advancement, competitive salaries, generous benefits including an incentive bonus plan and relocation assistance. Please send your resume to: Syntex Corporation, Professional Staffing Dept. SSMO1245SB, 3401 Hillview Avenue, Suite A2-130, Palo Alto, CA 94304. Syntex is an equal opportunity employer committed to the values of a diversified workforce.

Syntex

Medical Writer/Sr. Medical Writer

The R.W. Johnson Pharmaceutical Research Institute (RWJPRI) is a first-class worldwide research and development organization within Johnson & Johnson, the world's largest and most comprehensive provider of health care products. RWJPRI performs R&D activities for the Johnson & Johnson companies - Cilag, Ortho-McNeil Pharmaceutical and Ortho Biotech.

Expanding CNS and Clinical Pharmacology programs have created significant career opportunities for Medical Writers/Sr. Medical Writers with good written and oral communication skills, and demonstrated ability to handle diverse, multiple assignments simultaneously.

To qualify, you must have a Ph.D. in the Biological Sciences (Pharmacology preferred) with extensive publications and other scientific writing experience. You will be responsible for collaborating with physicians and statisticians in preparing investigational drug brochures, reports summarizing clinical trial results, and other summary documents for NDAs/product license applications/international registrations.

We offer a competitive salary and comprehensive benefits, and ideal suburban locations in Central New Jersey or suburban Philadelphia. Ours is a smoke-free workplace.

No phone calls please. Submit curriculum vitae with salary requirements to: HR Dept. 15, R.W. Johnson Pharmaceutical Research Institute, P.O. Box 300, Raritan, NJ 08869-0602.

An Equal Opportunity Employer, M/F/D/V

UNIVERSITY OF COLORADO
SCHOOL OF MEDICINE
DEPARTMENT OF PHYSIOLOGY
ASSISTANT/ASSOCIATE PROFESSOR - TENURE TRACK

The Department of Physiology at the University of Colorado School of Medicine has available one tenure track position at the Assistant or Associate Professor level. Although applications may be submitted at any time, selection of candidates will begin March 1, 1994.

The Department Faculty have active research programs in developmental neurobiology, ion channel expression, synaptic transmission, sensory transduction, epithelial transport and secretion, and reproductive physiology. The School of Medicine is strongly research-based, with active interdepartmental programs in Cell and Developmental Biology, Immunology, Molecular Biology, and Neuroscience.

Applicants will be considered who have research interests in cellular, molecular or developmental physiology or functional organization of the central nervous system. Successful candidates will be expected to conduct vigorous independent research programs and to participate in professional and graduate teaching. Applicants should send Curriculum Vitae and the names of at least three referees to:

Dr. S.R. Levinson
Chair, Faculty Search Committee
Department of Physiology, C240
University of Colorado Medical School
DENVER, CO 80262

The University of Colorado Health Sciences Center is committed to Equal Employment Opportunity and Affirmative Action.
POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS available. The first for research in combined molecular biology-electrophysiology project on ion channels. Training in molecular biology required. Additional familiarity with or training in electrophysiology helpful. The second for patch clamp studies on cardiac ion channels. Electrophysiology experience necessary. Submit curriculum vitae to: Dr. Ira S. Cohen, Department of Physiology & Biophysics, University of New York, Stony Brook, NY 11794-8661. SUNY at Stony Brook is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for research on the molecular basis of resistance (MCR) in the OCMC Transgenic Anole lizard. Position includes participation in the production of transgenic and knock-out mice, and collaborations with investigators within the OCMC. Experience in transgenic technology, homologous recombination and/or cell culture desirable. Send curriculum vitae and names and telephone numbers of three references to: Dr. N. L. Nadon, Biology Department, University of Tulsa, 600 South College Avenue, Tulsa, OK 74104. The University of Tulsa is an Equal Opportunity Employer.

KIRIN

POSTDOCTORAL POSITION IN PLANT MOLECULAR BIOLOGY

A 2-year postdoctoral position is available for individuals interested in plant molecular biology. Applicants must have experience in the expression of the genes involved in fatty acid and lipid synthesis using transgenic plants. Applicants should have demonstrated experience in the isolation of molecular biology, histology and plant physiology. Plant transformation technique is desirable, but not required. Salary and benefits levels are competitive. For information, call (814-656-4833) or fax (814-656-4043). Please send curriculum vitae, reprints and three letters of recommendation to: Dr. Takashi Ohtani, Central Laboratories for Key Technology Co., Ltd., Rokgu 1-13-5, Kanazawa-ku, Yokohama 236, Japan.

ENVIRONMENTAL TOXICOLOGY TRAINING UNIVERSITY OF WISCONSIN—MADISON

POSTDOCTORAL POSITIONS in Molecular, Cellular and Biochemical Toxicology funded by an NIH grant. The Toxicology Training Program involves a 1-year placement in the training program and a 1-year research appointment at the University of Wisconsin, Madison, with the possibility of extension. The program will be jointly directed by two toxicologists. Research projects will be conducted in the areas of environmental toxicology and toxicology-related aspects of physiology and pharmacology. The program will be open to all qualified candidates, regardless of sex, race, or national origin. The program is directed toward education and training of toxicologists who will be able to function as effective scientific leaders in the field. The opportunity is open to all qualified candidates. For more information, contact: Kristi F. Hetzel, Director, Toxicology Training Program, Department of Environmental Sciences, University of Wisconsin, Madison, WI 53706 (608) 263-4580. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available at the University of California, San Diego, to investigate the neuroanatomy of the mammalian gustatory system. Funded project concerns neural processing on the tongue, in the periphery, and the synaptic organization of the central taste system. Techniques include high voltage EM autoradiography, EM immunocytochemistry, and neuronal tract marking. Send curriculum vitae and a statement of research interests to: Dr. Colin R. Jefcoate, Director Environmental Toxicology Center B157 Steenbock Library 550 Babcock Drive Madison, WI 53706 Telephone: (608) 263-4580 An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS to study the cell cycle regulation and development of the megakaryocytic/platelet lineage (see Journal of Cell Biology 123, 1545). Must have experience in molecular biology. Salary support available. Send curriculum vitae, references, and 2 to 3 letters of reference to: Dr. Kaya Ravid, Department of Biochemistry, Boston University School of Medicine, 80 East Concord, Boston, MA 02118.

POSTDOCTORAL POSITIONS to study neurotrophic herpes viruses. Applicants should send curriculum vitae, references and a brief description of research interests to: Dr. Karen D. Brown, Department of Molecular Biology, Lewis Thomas Laboratory, Princeton University, Princeton, NJ 08544—1014. Princeton University is an Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION to study pharmacokinetcis and mechanisms of drug activity against Trypanosoma gondii is available in our Department of Immunology and Infectious Diseases. Required is a doctorate in Pharmacology, Pharmacokinetics, Biopharmaceutics or Pharmacodynamics. Experience in pharmacokinetic studies, in studies to determine bioavailability/bioequivalence, in the evaluation of safety and efficacy of new anti-malarial agents, in the interpretation of pharmacokinetic observations, as well as in studies on mechanisms of drug activity in mammals will be an asset. The successful candidate will be responsible for the organization, execution, and analysis of studies for a contract research testing facility. Send curriculum vitae to: K. Roberts, Research Institute, Palo Alto Medical Foundation, 804 El Camino Real, Palo Alto, CA 94301. We are an Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study biological electron transfer using new ruthenium photoelectrocatalysis (see Biochemistry 32 7519, 8492). Studies under way include cytochrome c, cytochrome oxidase, cytochrome c peroxidase, and cytochrome b5. Send curriculum vitae and names of three references to: Dr. J. F. Halldalngh, Department of Chemistry and Biochemistry, University of Arkansas, Fayetteville, AR 72701. FAX: (501) 575-4049. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—MARINE MICROBIOLOGIST (Molecular and Cellular Biology) is available for a Postdoc Research Associate to investigate the relationship between microbial community composition and community metabolic capabilities in coastal bacterioplankton communities. We are looking for someone with experience in molecular biology, preferably working in transcription or molecular ecology. This is a 2-year position with starting salaries of approximately $30,000 per annum and a full benefits package. We expect the successful candidate to join the project by September 1, 1994. Send applications and names, addresses and telephone numbers of at least three references to: Dr. D. L. T. Jordan, Tiberon Center, FSU, P.O. Box 855, Tiburon, CA 94920; by March 1, 1994. Send applications to: San Francisco State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are particularly urged to apply.

DOCTOR OF ARTS IN BIOLOGICAL SCIENCES: FELLOWSHIPS are available for persons interested in the D.A. degree in Biological Sciences. The program provides the undergraduate teaching at colleges and universities. Applicants must hold a Master's degree in some area of biology. Deadline for receipt of application is 1 March 1994. For more information contact: Chairman D.A. Committee, Department of Biological Sciences, Idaho State University, Pocatello, ID 83209. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS in gastroenterology and pediatrics are available beginning fall 1994 and continuing through fall 1995. The National Institute of Diabetes and Digestive and Kidney Diseases is seeking candidates for a research position to work on a project related to the biology of gastrointestinal tract inflammation. Position requires a Ph.D. in physiology, biochemistry, or related field. The successful candidate must have a Ph.D. degree in physiology, biochemistry, or related field. Initial appointment is a one-year position renewable for a second year. Salary is $35,000 for the first year and $38,000 for the second year. Send curriculum vitae, three references, and a statement of research interests to: Dr. J. F. Halldalngh, Department of Chemistry and Biochemistry, University of Arkansas, Fayetteville, AR 72701.

UNIVERSITY OF ABERDEEN 5-YEAR POSTDOCTORAL RESEARCH FELLOWS (2) £12,828—£20,442 per annum

Required for the Department of Molecular and Cell Biology to join the Aberdeen Candida Group, which has a strong background in the molecular and cell biology of dimorphism in C. albicans, a major fungal pathogen in humans. You will focus on the molecular and cell biology of C. albicans dimorphism and the cell wall and will be expected to develop collaborations with other members of the Group. Funded by the Wellcome Trust, both posts are tenable for five years.

Application forms and further particulars are available from: Personnel Services, University of Aberdeen, Regent House, Kings College, Aberdeen, AB9 22XQ: Tel: 0224 272777 quoting reference number ZMC 229R. A 24-hour answering service is in operation. Closing date: 11 February 1994.

An Equal Opportunities Employer.

POSTDOCTORAL RESEARCH FELLOWSHIPS IN SUBSTANCE ABUSE. Three research fellowship positions (2 to 3 years) are available in a stimulating and productive laboratory and clinic. The first position is for research on behavioral and pharmacological treatment of opioid and heroin dependence. Includes research on new pharmacotherapy, buccal administration of drug, and development of new approaches to treatment. The second position is to study caffeine and nicotine self-administration and withdrawal in humans. Both laboratory and clinical studies. For this position contact John J. Hughes, M.D. The third position entails participating in the development, conduct, and publication of studies on behavioral treatment for cocaine and heroin dependence. Participation in laboratory studies examining factors influencing human cocaine self-administration is also possible. For this position contact Susan E. Hessen, M.D.

For all positions applicants must have completed doctoral training in psychology or pharmacology, and have research experience. It is to obtain altered forms of pgk1 drug which is used in the above position.

An Equal Opportunity Employer.
Cellular/Molecular Immunology
The University of Calgary Faculty of Medicine invites applications for a full-time academic position at the Assistant Professor level or higher for research in cellular or molecular immunology. Qualifications include a PhD, MD or equivalent, and interest and experience in immunology at the cellular or molecular level, particularly related to autoimmune pathogenesis of Type 1 Diabetes. Opportunities will be available for graduate and medical school teaching. Rank and salary commensurate with qualifications and experience.

The successful candidate must compete successfully for salary and establishment grant support from the Alberta Heritage Foundation for Medical Research or the Medical Research Council, and will have 75% of time protected for research.

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

The University of Calgary is committed to Employment Equity.

Please submit a complete curriculum vitae and statement of research and goals, and arrange for three letters of reference to be sent directly, by March 15, 1994, to:

Dr. Ji-Won Yoon
Professor and Director
Julia McFarlane Diabetes Research Centre
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta, Canada T2N 4N1

THE UNIVERSITY OF CALGARY

RESEARCH ENGINEER/SCIENTIST

The Energy and Environment Division of the Lawrence Berkeley Laboratory currently has an opening for a Staff Scientist to conduct research on building energy performance and related indoor air quality issues in the Energy Performance of Buildings Group of the Indoor Environment Program.

Current focus will be on projects relating to thermal energy distribution systems in buildings, ranging from residential duct systems to large commercial-building HVAC complexes. The work involves development of new duct system technologies, detailed and simplified simulation models of integrated thermal, air-flow & HVAC system performance, national standards for thermal distribution system efficiency and field experimentation on existing buildings and new technologies. Other responsibilities include project management, supervision of graduate students/research associates, and oral/written presentation of research findings.

Requires extensive background/experience in one or more of the following areas: basic or applied fluid mechanics or heat transfer; aerosol science and technology; large-scale field monitoring; large computer simulation codes (preferably building related); energy technology development; and IAQ measurement and modeling techniques. Substantial experience in independent research communication also required. Ph.D. in mechanical engineering, chemical engineering, or physical science; experience in Building Science, especially HVAC and thermal distribution; and experience in interdisciplinary research preferred.

Please send resume and salary requirements to: Lawrence Berkeley Laboratory, Staffing Office, Box 500798, 1 Cyclotron Road, Berkeley, CA 94720.

Yale University
Assistant Professorships in Pathology:

The School of Medicine is seeking applicants for full time appointment at the Assistant Professor level. Successful candidates will develop an independent investigative program, participate in the teaching of graduate students, medical students, and housestaff, and contribute to collaborative investigations with other members of the research and clinical faculty. Applicants with demonstrated creativity, research productivity and training in molecular genetics, molecular oncology, biochemistry, virology, or cell biology, and an interest in problems related to human biology are preferred.

Send current CV and names of three references before April 15, 1994 to:

Jon S. Morrow, M.D., Ph.D., Professor and Chairman, Department of Pathology, Yale University, School of Medicine, 310 Cedar Street, New Haven, CT 06510.

If you have submitted a curriculum vitae within the last 18 months, your application is on file.

Yale University is an equal opportunity, affirmative action employer. Minorities and women candidates are urged to apply.

Washington University in St. Louis
Biology & Biomedical Sciences
Graduate and postdoctoral training opportunities in...

Molecular and Cellular Immunology

Paul Allen - Presentation of self-antigens and tolerance.
Julian Ambrus - Cytokine regulation of human B cell proliferation and differentiation.
Ted Haneman - Molecular and cellular studies of the immune system.
Stan Kormayer - Proto-oncogenes in lymphocyte development and malignancy.
Dennis Lab - Molecular genetics of T-cell receptors.
Douglas Labella - Phospholipid-anchored membrane proteins and lymphocyte activation.
Ken Murphy - Molecular development of T helper cell phenotypes.
Marlous Peters - Immunoregulation of T and B lymphocytes in liver and bowel diseases.
Robert Schreiber - Cytokines and cytokine receptors.
Andrey Shaw - Function of tyrosine kinases in T cell activation.

Matt Thomas - Cellular regulation by protein tyrosine phosphatases; lymphocyte activation.
Enui Umease - Antigen processing and presentation.

...and others

Please direct inquiries for postdoctoral training to specific faculty members. For graduate student information, please write to: Biology & Biomedical Sciences, Campus Box 6226, 660 S. Euclid Ave., St. Louis, MO 63110-1093; or call 800-852-9074.

Merck Research Laboratories

Radiopharmacologist

Merck Research Laboratories in West Point, PA, a leader in pharmaceutical and biological research, has an excellent research career opportunity in the Radiopharmacology Group.

The position involves the application of radionuclide methodologies to drug development, with particular emphasis in autoradiographic methods. Applicants must have a Ph.D. in Pharmacology, Biochemistry, or related fields with 1 to 2 years post-doctoral research or an M.S. degree with 5 years research experience. Expertise in all aspects of autoradiography (e.g. radioisogand-receptor and in situ hybridization) is a minimum requirement. Experience with in vivo pharmacologic methods such as small animal surgery is desirable.

Excellent salary and benefits programs accomplish these positions at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with references, transcripts and cover letter to Personnel Manager, Ad D-27, MRL Human Resources - WP42.2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19428. EOE/AA/VH Employer.
POSTDOCORAL FELLOWS: The Brain and Devel- 
oped Regions (BDRC) of the University of 
North Carolina seeks three research fellows for training 
programs bridging two or more disciplines of the fol- 
lowing disciplines: neuroanatomy, neurochemistry, 
neuromolecular biology, neuropharmacology, 
neurotoxicology, and molecular biology. 
Candidates are available in all BDRC sections: Molecular Neurobiology (B. Page), Neurochemistry (D. Morel), 
Neuropsychology (K. Suzuki), Neuropharmacology (J. 

RESEARCH ASSISTANT 
Position available for qualified individual with techni-
cal expertise using current molecular techniques such as 
construction of expression vectors, screening genomic and 
DNA libraries, Northern and Western blots. Tissue culture 
techniques and a working knowledge of animals. 
Candidates should submit curriculum vitae and names of 
three references to: Dr. Elizabeth J. Robertson/Eliza-
theta B. Bikoff, Department of Biochemistry, Molecu-
lar, Cellular, and Developmental Biology, Harvard 
University, 16 Divinity Avenue, Cambridge, MA 
02138.

SENIOR SCIENTIST— 
COAGULATION REAGENT DEVELOPMENT 
An immediate growth opportunity exists for an ex-
perienced scientist interested in the development of 
coagulation reagents. The incumbent should have three 
to five years of industrial experience in IVF product 
development and be familiar with the regulations of FDA 
cGMP and 510(k) regulations is required. The firm offers 
competitive salaries and benefits and enjoys an attractive 
midwestern lifestyle with good housing and schools. All 
inquiries will be held confidential and should be 
addressed to: Box 46, Science Classified Advertising, 
1333 H Street N.W., Room 814, Washington, DC 
20005.

MOLECULAR (DNA) TECHNOLOGIES— 
Kaiser Permanente San Jose's new molecular lab seeks 
qualified individuals to perform molecular lab procedures 
and techniques used for analysis of DNA samples. Re-
quires a B.S. or B.A. in chemical, physics, or related 
science field and at least one year experience in a clinical 
a molecular lab performing DNA diagnostic testing procedures and 
techniques. Employment Office, 275 Hospital Park-
way, Suite 300, San Jose, CA 95119. Telephone: 408-972-7293. Equal Employment Opportunity/Affirmative 
Action.

MR BIOENGINEER. The Department of Radiology 
at the University of Pennsylvania is seeking a faculty-
level engineer for its MR group. This research-track 
position is based at the University of Penn-
sylvania Medical Center in Philadelphia. The investigator 
will work in a newly developing program in clinical 
applications of MRI and MRS. Candidates should have a 
Ph.D. in Bioengineering with experience in MRS and 
MRI including magnetization transfer imaging, and 
shortening pulse sequences for the MRS and pulse pro-
gramming of clinical MR scanners. Demonstrated orga-
nizational and leadership skills are essential and 
experience in industry is desired. Resumes to: Robert Lenkin- 
ski, Ph.D., Department of Radiology, University of 
Pennsylvania Medical Center, 3400 Spruce Street, 
Philadelphia, PA 19104. The University of Pennsylvania is 
an Affirmative Action/Equal Opportunity Employer.

PROTEIN CHEMIST 
A position is available for a skilled protein chemist to 
oversee a protein chemistry core facility including equip-
ment for protein/peptide purification and sequencing. 
The successful applicant will interact with a small group of 
researchers involved in the development of monoclonal 
agents with neurotransmitter receptors and ion channels. 
The position will be a non-faculty, career-level appoint-
ment. In addition to development of appropriate protein 
purification and fragmentation protocols, this individual 
will be responsible for development of novel protein 
sequencing strategies. Demonstrated experience in pro-
ten chemistry is required, as is research, and experi-
ence in organic synthesis is desired. Direct applications, 
including a description of relevant experience and the 
names of three references to: Dr. Jonathan B. Cohen, 
Department of Neurobiology, Harvard Medical School, 
220 Longwood Avenue, Boston, MA 02115. 
Harvard Medical School is an Affirmative Action/ 
Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP PROGRAM IN 
NEUROBIOLOGY. The American Physiological Society, in collabora-
tion with Genentech, Inc., is pleased to announce the 
creation of a new fellowship program designed to pro-
mote the involvement of graduate students in the area of 
molecular neurobiology. The fellowship is intended to 
recognize the fact that many advances in cell and 
molecular biology will ultimately require an understand-
ing in the context of the organism. A central criterion is 
that the postdoctoral project uses the tools of cellular 
and molecular biology in the setting of the whole animal. 
Candidates are expected to have demonstrated interest 
and experience in the area, and a significant portion of 
their work will focus on a model system with a major 
impact on one of the seven sub-disciplines of neuro-
biochemistry. A list of the seven sub-disciplines is: 
1. Neurotransmitter and receptor pharmacology; 2. 
Modulation of neurobiological processes through anti-
body or growth factor administration; 3. the role of 
growth factors in the normal and diseased nervous 
system; 4. the role of electrical and hormonal signals 
in the differentiation and development of the nervous 
system; 5. the role of ion channels in normal and 
diseased nervous system function; 6. basic and applied 
neurorehabilitation; 7. brain tumor biology. 
Applications must be submitted electronically to: 
Bernard B. Cohen, Director, Developmental 
Biological Sciences, Genentech, Inc., 285 
Sand Hill Road, South San Francisco, CA 94080. 
Deadline: May 15, 1994. Contact: APS/ 
Genentech Postdoctoral Program, American Physiologi-

cal Society, 9650 Rockville Pike, Bethesda, MD 
20814-3991. Telephone: (301) 530-7118.

A POSTDOCTORAL FELLOWSHIP IN Mole-
cular Biology/Applicated Computer Science is available in 
the BioMolecular Engineering Research Center at 
Boston University. Candidates must have a recent Ph.D. in 
molecular biology, molecular genetics or computer science. 
This position involves working on problems in diagnostic 
sequence pattern recognition. This will involve collabora-
tion with active experimental molecular biologists and 
computer scientists. Applicants should have experience 
Send curriculum vitae and 3 letters of recommendation to: Dr. 
Temple F. Smith, BMERC, Boston University, 85 Cambridge Street, 
Boston, MA 02215. An Affirmative 
Action/Equal Opportunity Employer.

[remainder of text not visible]
The Neuroscience Department at Pfizer Central Research has a number of openings for BS/MS level scientists. In these challenging opportunities, you will be part of an interdisciplinary team focused on the discovery of novel therapeutic agents for the treatment of diseases of the central nervous system. Areas of active investigation include anxiety, depression, psychosis, Alzheimer’s and other neurodegenerative diseases. Individuals with skills in all areas of neuropharmacological research are encouraged to apply.

Behavioral Pharmacology

The primary responsibility of this position is to conduct experiments examining the effects of drugs on schedule-controlled behavior in vivo. Familiarity with operant techniques (including drug discrimination), and relevant surgical and computer skills, are preferred.

In Vivo Neuropharmacologist

The flexible and responsible BS scientist we seek will become part of a team investigating novel treatment strategies for Alzheimer’s disease. Familiarity with in vivo techniques such as stereotaxic surgery, behavioral pharmacology, neurochemistry or electrophysiology would be an asset, as would industrial experience and competence in the use of computers for data collection and analysis.

Neuroscience Research Assistant I

In this key assignment, you will perform in vitro electrophysiological experiments in research projects directed toward the discovery of novel CNS drugs. Techniques used in your research will include patch and voltage clamp recording from a variety of cell lines, xenopus oocytes and primary neurons, and patch clamp and intracellular recording from brain slice preparations. Experience should include in vitro electrophysiology from neurons, cell lines or other excitable cells. Familiarity with computerized data collection and analysis systems and experience with brain slice recording or tissue dissociation methods are desirable.

Neuroscience Research Assistant II

Challenge your skills performing stereotaxic surgeries for microdialysis probe implantation, and analyzing dialysate samples with HPLC utilizing electrochemical detection. HPLC troubleshooting and data analysis will be required. To qualify, you’ll need a BS in biological sciences (or the equivalent) and relevant surgical experience. A knowledge of neuropharmacology and microdialysis is also required.

Neurochemist

We have an exciting opportunity for a highly motivated neurochemist to join our Dementia Group in the search for novel therapies for Alzheimer’s disease. The successful candidate will have experience with radioligand-receptor binding in membranes, second messenger assays (PI, cAMP), and in vivo neurochemistry (dosing, tissue sampling and analysis). Some experience with HPLC analysis is also required, and tissue culture skills are desirable. An MS in Biological Science or a BS with four years of relevant experience is essential.

In addition to a stimulating research environment, we offer a competitive compensation and benefits package, including generous relocation assistance to this southeastern Connecticut shoreline community. Qualified applicants may send a resume, description of research experience, and names of three references to: Mr. Kym Goddu, Personnel Associate, Employee Resources Department, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.
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- Hot fields for B.S./M.S. scientists
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- What kind of salaries recent graduates can expect
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For more information on advertising in this SCIENCE exclusive, please call Janis Crowley, Recruitment Advertising Manager at 212-496-7704.

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Don't forget to advertise your M.S./Ph.D. positions in our annual Careers In Science issue published September 24, 1993.

*The Nation's top schools for Biological Sciences, various Chemistry disciplines and Clinical Medicine ranked by the Institute for Scientific Information's SCIENCE WATCH, as well as the top 20 schools from U.S. NEWS & WORLD REPORT's Annual America's Best Colleges issue.
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Genentech’s commitment to science is a critical component to our success in the biotechnology industry. Our leadership position and rich product pipeline create opportunities for dedicated Research Assistants/Associates.

NEUROSCIENCE

You’ll study possible protective effects of neurotrophins on central and peripheral neurons in animal models, as well as in cell culture systems. This position requires hands-on experience with stereotaxic surgery, micro-dissection and electrophysiological recording in lab animals.

A BS/MS plus 2 or more years’ neurobiology lab experience is required. Knowledge of electrophysiology and familiarity with either intracellular/extracellular recording, voltage-clamping, or patch-clamping techniques are also essential. Neuronal cell culture and immunocytochemistry knowledge is desired. Job Code NS-WQG

CELL CULTURE PROCESS DEVELOPMENT GROUP

You’ll be involved with the optimization of mammalian cell culture processes for the production of recombinant proteins. You will examine cell metabolism to address nutrient limitations, as well as investigate ways of enhancing recombinant product secretion.

A BS/MS in Biochemistry, Cell Biology or Biology, and 5+ years’ of cell culture and biochemical research experience are required. The ability to design and conduct experiments relevant to process development, under minimum supervision, as well as provide training and guidance to others in the lab is also required. Excellent written and verbal communication skills are essential. Experience in mammalian cell culture, cell metabolism and protein secretion preferred. Job Code: TS-AM

Genentech offers an excellent salary and benefits package which includes child care facilities, free health club membership and fully paid medical/dental/vision coverage. For immediate consideration, please send your resume indicating job Code, to Genentech, Inc., Human Resources, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment. Women and minorities are encouraged to apply.

Genentech, Inc.
DANA FOUNDATION POSTDOCTORAL SCHOLARS PROGRAM IN BIOLOGICAL IMAGING AT UCLA

The Department of Molecular and Medical Pharmacology and the Crump Institute for Biological Imaging at UCLA have a unique program of study in an environment where the principles of imaging, molecular and cellular biology and pharmacology merge in studies of the brain. Two positions are available immediately within the Dana Postdoctoral Scholar programs of study in the use of PET and MRI to investigate:

1) Alterations in metabolism and neurotransmitter systems by drugs of abuse. We are currently seeking qualified Ph.D. applicants with expertise in behavioral pharmacology related to the neurobiology of addiction. The project will involve the design and implementation of drug self-administration paradigms in non-human primates.

2) The metabolic maturation and neuronal plasticity of the brain. This research will focus on the causes and significance of normative and induced changes in brain metabolism in developing non-human primates. The successful applicants will join an ongoing research program and should have a Ph.D. in behavioral neuroscience, developmental psychology or a related field. Familiarity with ethology is desired.

The postdoctoral positions are designed for individuals who have completed their Ph.D. within the last four years. These research projects are part of a Dana Foundation Scholars program that also carries a similar range of studies in human subjects. Please submit curriculum vitae, a description of research goals and the names and addresses of three references to:

Dr. Michael E. Phelps
Jennifer Jones Simon Professor
Chairman, Department of Molecular and Medical Pharmacology
Director, Crump Institute for Biological Imaging
Department of Molecular and Medical Pharmacology
UCLA School of Medicine
23-135 Center for the Health Sciences
10833 Le Conte Avenue
Los Angeles, CA 90024-1735

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Department of Genetics

The Department of Genetics plans to hire several new faculty members over the next three years. Applications for junior level, tenure track faculty positions are invited. Applicants utilizing genetic model systems to address biological problems will be considered. Responsibilities include establishment of a strong and interactive research program and a commitment to graduate and/or medical student education.

Applicants should send a curriculum vitae and a statement of current and future research plans and arrange for the submission of three letters of reference by April 1 to:

Search Committee
Attention: Norma Brown
Department of Genetics
Box 8232
Washington University School of Medicine
4566 Scott Avenue
St. Louis, MO 63110

Senior Protein Chemist and Associate/Full Professor
University of Illinois at Chicago

Applications are invited for a position as Head of the Protein Sequencing/Synthesis Laboratory in the UIC Research Resources Center (50%) and tenured Associate/Full Professor in the Department of Biochemistry (50%). We seek faculty who will have a commitment to facilitating university research programs through management of a centralized protein chemistry laboratory and participation in service, training, administrative activities, and demonstrated commitment to equality of opportunity. Applicants are expected to have established expertise and an active, independent and externally funded research program in protein/peptide chemistry. Applicants should send a CV, statement of career interests, summary of current and future research plans and three letters of reference to: Protein Chemist Search Committee, c/o D. Debelak, Search Coordinator, Office of the Vice Chancellor for Research (m/c 672), 310 AOB, 1737 W. Polk Street, University of Illinois at Chicago, Chicago, Illinois 60612. Application deadline: March 31, 1994. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

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Faculty Positions in Marine Science
University of North Carolina
at Wilmington

The Marine Science Program at UNCW is expanding, and applications are invited for five faculty positions beginning August '94. UNCW currently has some 35 faculty members plus other PIs working in marine sciences. The B.S. degree is offered in marine biology, and master's degrees in chemistry, geology, biology and marine biology. A cooperative Ph.D. degree program in marine science is offered jointly with North Carolina State University. Expansions are planned in all of these programs.

UNCW is located on the coast in southeastern North Carolina, with proximity to rivers, tidal creeks, estuaries, continental shelf soft and hardbottom environments, two estuarine research preserves, the Gulf Stream and the open Atlantic beyond. UNCW is a part of the Duke/UNC Oceanographic Consortium which operates the R/V Cape Hatteras, and it is host to the NOAA National Undersea Research Center which operates the undersea lab Aquarius.

Applications and nominations are invited in the following areas:

- **ENDOWED CHAIR IN MARINE SCIENCE:** Professor in biological oceanography. This person would be expected to provide leadership and interact extensively with faculty, graduate and undergraduate students. An active, externally funded research program is essential.

- **PHYSICAL OCEANOGRAPHER:** Assistant professor in Physics Dept., tenure track with strong background in physics. Must interact with other marine scientists at UNCW.

- **MARINE GEOLOGIST:** Assistant professor in Earth Science Dept., tenure, track, with research interests in environmental problems related to coastal/ocean systems.

- **VERTEBRATE BIOLOGIST:** Assistant professor in Biology, tenure track. Should be able to teach comparative anatomy, herpetology and courses in area of specialization, and complement existing departmental strengths in coastal and marine biology.

- **MARINE BIOLOGY:** Assistant professor, tenure track. Candidates must have expertise (research and teaching) in the area of comparative vertebrate immunology and molecular biology, and complement existing biomedical programs in marine chordates.

Each position requires a Ph.D. and post-doctoral experience is desirable. Teaching at both the undergraduate and graduate levels will be required, along with an active research program. Applications received by March 15, 1994 will be assured consideration. Send resume, brief description of intended research, a statement of teaching interest and experience, and names of five references to Dr. Joan Willey, Department of Chemistry, UNCW, 601 S. College Road, Wilmington, N.C. 28403-3297.

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Lakian Postdoctoral Scholar
at the Marine Biological Laboratory
Woods Hole, MA

THE MARINE BIOLOGICAL LABORATORY is seeking candidates and nominations for a one-year, renewable, postdoctoral fellowship for work and study in our year-round research laboratories beginning about July 1, 1994. We are especially interested in a person willing to contribute to interdisciplinary investigations.

The programs available to host this fellow are:

- **Architectural Dynamics in Living Cells**
  (Shinya Inoue, Rudolf Oldenbourg & Andreas Stemmer)
- **Program for Molecular Evolution**
  (Mitchell Sogin)
- **Ecosystems Center**
  (John Hobbie & Jerry Melillo)
- **Cell Biology in a Fish Model**
  (Neal Cornell)
- **Development of Mariculture Methods**
  (Alan Kuzirian)
- **Database Development of E. coli Genes and Gene Products**
  (Monica Riley)
- **Biochemistry of Bioluminescence**
  (Osamu Shimomura)
- **National Vibrating Probe Facility**
  (Lionel Jaffe & Peter Smith)
- **Calcium Patterning Program**
  (Andrew Miller & Lionel Jaffe)

Submit a letter of interest and current curriculum vitae to be received by March 1, 1994 to: Human Resources Office, Marine Biological Laboratory, Woods Hole, MA 02543.

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Molecular Pharmacology of G-Protein Coupled Receptors

Synaptic Pharmaceutical Corporation has an immediate opportunity in our Molecular Pharmacology Group for a Ph.D. researcher whose studies will involve analysis of known and novel receptor sub-types in heterologous expression systems, site-directed mutagenesis, and drug discovery. Experience in G-protein-coupled receptors and demonstrated expertise in receptor binding and signal transduction with a minimum of 4 years postdoctoral experience is required. A background in physiology or animal behavior is preferred.

Synaptic Pharmaceutical Corporation is a leader in the search for novel therapeutic agents for the treatment of central and peripheral nervous system disorders using human target-based drug design. Successful candidates will join our multi-disciplinary drug discovery teams to create new therapies for the treatment of human diseases.

Synaptic Pharmaceutical Corporation offers excellent compensation and benefits which include a 401(k) plan and equity participation programs.

For consideration, send resume in confidence to:
Human Resources Manager, Dept. 147
Synaptic Pharmaceutical Corporation
215 College Rd., Paramus, New Jersey 07652
Postdoctoral Position

The National Cancer Institute, National Institutes of Health, Public Health Service, requests applications for a Post Doctoral Fellow located in the Experimental Retrovirology Section of the Medicine Branch, Clinical Oncology Program in Bethesda, Maryland. Salary range is $43,000-$55,000. The National Cancer Institute is an Equal Opportunity Employer.

Qualifications:

1. At least four years practical experience, as demonstrated by scientific publications, in the area of development of antiviral therapy against HIV-1 infection using the techniques involved in anti-HIV drug testing and determination of the antiretroviral mechanism of such drugs.

2. At least four years practical experience in performing and training others in the techniques involved in the isolation and propagation of clinical HIV-1 strains from individuals infected with HIV-1 receiving antiviral therapy, and determination of genetic and phenotypic properties of such HIV-1 strains.

3. At least four years practical experience as a physician, as demonstrated by scientific publications, in the study of cancer immunology using lymphokine-induced immunocompetent cells.

4. US Citizenship is not required.

All applications must be postmarked within 14 days of this issue of Science. All applications should include the following:

a) Curriculum vitae and bibliography;

b) Cover letter including date and place of birth;

c) C.V. should detail education and training, as well as current residence.

All applications should be sent to:

Robert Wittes, M.D., Chief Medicine Branch, COP, DCT National Institutes of Health National Cancer Institute Building 10, Room 12N226 9000 Rockville Pike Bethesda, Maryland 20892

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From immunoassays and DNA probes to molecular/cellular biology and software instrumentation, IDEXX is utilizing state-of-the-science technologies to aggressively and successfully target niche markets worldwide. Our powerful new generation of diagnostic and detection products are now used in applications ranging from animal health to food and environmental testing and biomedical research. With a phenomenal growth pattern behind us and a solid growth strategy ahead, we are seeking top-notch professionals to add to our research team.

Research Scientists

Gene Expression/Protein Purification Group

Current opening involves the cloning and expression of genes related to animal infectious diseases and immunity. This individual must have a Ph.D. in Molecular Biology or Biochemistry and must have experience in the expression of cloned genes in prokaryotic and eukaryotic cells or protein purification. cDNA cloning or immunoassay development experience helpful. 0-2 years' post-doctoral experience preferred.

Imunoassay Technology Group

Current opening involves developing novel immunoassay technologies. Candidates should have 2-5 years' post-doctoral experience in developing immunoassay technologies, especially solid phase immobilizations.

In addition to the above openings, IDEXX continues to generate unique opportunities for individuals who share our enthusiasm for discovery. We regularly have openings for Ph.D. and Master's level Manufacturing Scientists, Manufacturing Chemists, and Research Associates in the following areas:

- Microbiology  
- Molecular Biology  
- Biochemistry  
- Immunology

Respond in confidence with CV and letter of interest to: Human Resources, Code SC0121, IDEXX Laboratories, Inc., One IDEXX Drive, Westbrook, ME 04092. We are an equal opportunity employer.

Sr. Scientists

Microbial Pathogenesis

Sr. Scientist, Group Leader, Molecular Biology

to join our molecular biology team engaged in bacterial vaccine research and development. Successful candidates should have a Ph.D. in microbiology or a related field. We require 2-5 years of post-doctoral experience for the project scientist and 4-10 years technical and supervisory experience for the group leader. Expertise in molecular microbiology and bacterial pathogenesis is essential; applicants with experience in industry are especially encouraged to apply.

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Energy, Environment and Resources Center.

The University of Tennessee, Knoxville invites nominations and applications for the position of Director of its Energy, Environment and Resources Center (EERC). The mission of the EERC is to develop multidisciplinary policy research programs crossing college and departmental lines and to serve as an advisory capacity on academic, campus-wide issues dealing with the environment. The director is the chief administrative officer of the EERC and reports to the Associate Vice Chancellor for Research. Applicants should hold an earned doctorate degree in a discipline related to the mission of the EERC and should qualify for a tenure position in a related academic department. The candidate should have administrative experience at the departmental level or above, in an academic institution or federal government agency; knowledge of potential funding sources; demonstrated success in grantmanship; experience in managing interdisciplinary efforts; a strong record of publications; and an understanding of and demonstrated commitment to equal employment opportunity and affirmative action. The directorship is a permanent, 12-month administrative appointment that will become available as early as July 1, 1994. Salary is open and depends on experience and qualifications. The review of applications will begin March 1, 1994 and applications will be received until the position is filled. Nominations should be as detailed as possible; applications must include a current resume, names of at least three references, and a statement of the applicants' special qualifications for, and interest in the position. Nominations and applications should be sent to: Dr. Gregory Reed, Search Chair, c/o Ma. Jodie Wehr, Office of Research Administration, The University of Tennessee, 404 Andy Holt Tower, Knoxville, TN 37996-0160. UT is an EEO/AA/Title IX/Section 504/ADA Employee.
Magnetic Resonance Imaging and Spectroscopy

One or more positions are open for staff members at the Biomedical Magnetic Resonance Laboratory, which includes the NSF-supported Center for Magnetic Resonance Technology for Basic Biological Research and an NIH-supported Research Resource for Biomedical Magnetic Resonance Research and Technology. Duties include research, teaching, technical support and laboratory management. M.S. or Ph.D. in science or engineering, or equivalent experience, required; Ph.D. preferred. At least two years experience in a scientific research laboratory is preferred, with experience in biological NMR spectroscopy and imaging desirable. The position is a 100% time, 12 month academic professional appointment. The salary is negotiable depending upon qualifications and experience.

Active research areas in the Laboratory include functional brain MR imaging and spectroscopy, in vivo and in situ NMR studies of physiology and metabolism, NMR microscopic imaging and microspectroscopy, contrast agent development, signal and image processing and the design and construction of new devices and accessories. Available equipment includes: a Spectroscopy Imaging Systems Corporation (SISCO) 4.7T/33 cm imaging spectrometer with a Doty Scientific microprobe, an IBM Field-Cycling Relaxometer, a General Electric/Telemag GNM300LbM 7.05T/89 mm bore multinuclear spectrometer with microimaging, a Varian Associate 11.7T (500MHz)/51 mm bore spectrometer, also equipped for microimaging, a 4T/7 m bore shielded magnet with a Surrey Medical Imaging Systems (SMIS) imaging and spectroscopy system, a SMIS 7.7T/31 cm system with a Magnex magnet, and an IBM RS6000 with a direct fiber optic connection to a Convex supercomputer and Connection Machine CM-5, as well as the usual desktop computers and workstations.

For full consideration, send a letter of application, resume and the names, addresses and telephone numbers of three references by March 15, 1994 to:

Paul C. Lauterbur
Biomedical Magnetic Resonance Laboratory
University of Illinois
1307 West Park Street
Urbana, Illinois 61801

Salaries and starting dates are negotiable.

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ICI Seeds is one of the world’s leading seed companies with breeding and biotechnology research centers in the major commercial seed markets and sales in over 40 countries. The North American group, based in Iowa, markets corn hybrids as well as leading varieties of soybean, sorghum, sunflower, canola and alfalfa. We have a number of openings in our product-driven biotechnology programs at the company’s research center near Ames, Iowa. Successful candidates will join interdisciplinary teams applying state-of-the-art biochemistry, cell and molecular biology to crop improvement programs.

**MOLECULAR BIOLOGY: Group Leader -** we seek an individual who will serve as a Group Leader in our corn transformation program. This individual will have a Ph.D. in Plant Molecular Biology, with special emphasis on disease resistance. Post-doctoral and commercial experience will be an advantage.

**Research Specialist** - applications are invited from those with an interest in analyzing the inheritance and expression of transgenes. This individual will have a BS/MS in plant sciences with experience in plant molecular biology.

**BIOCHEMISTRY:** Research Specialist - we seek an individual to assist in developing corn hybrids with improved grain quality and environmental stress tolerance. This individual should have an MS in Plant Biochemistry, Physiology or a closely related discipline and a solid background in biochemical methods. Knowledge and research experience related to molecular biology, modern approaches to plant physiology, and tissue culture would be additional assets.

Enjoy the advantages of belonging to a worldwide organization with the professional and financial resources to support and sustain aggressive long-term research.

We offer a competitive salary commensurate with experience, comprehensive benefits including a generous relocation package, high professional standards and most importantly - career association with a world leader in meeting farmers’ needs for the coming decade. Please submit your c.v. in confidence to: Stephanie Roach, ICI Seeds, 2369 330th Street, Box 500, Slater, IA 50244.

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An opening exists at our corporate research center for a Ph.D.-level Chemical Engineer to support our process technology. Using your 5 or more years' industrial experience, you'll work on various projects independently or as part of a team. Responsibilities include process development, design and economic analysis, project interface, technology transfer, and plant operation.

To qualify, you must have a strong process engineering background in the scale-up of protein purification processes and bio-organic reactions. Also requires interpersonal and communication skills to work effectively with professionals at all levels, including research scientists. Versatility, creativity and problem-solving abilities are highly desirable.

We offer a fast-paced environment where creativity is valued, and independent thinking, as well as collaboration, is encouraged. We offer unparalleled support for your scientific standing, and a generous compensation and benefits package. Please send your resume to: Corporate Human Resources, Dept. CE, Enzon, Inc., 40 Kingsbridge Road, Piscataway, NJ 08854. An equal opportunity employer.
PLANT/SYSTEMS ECOCLOGIST
Desert Laboratory, University of Arizona

The Desert Laboratory of the University of Arizona invites applications/tenure-track faculty position focused on ecosystem function and management in grasslands and deserts. Position will utilize the resources of the Desert Laboratory, a research facility with a 40-year legacy in ecologic research and monitoring, and the Animas Foundation, an institution established to study the sustainability of grazing in the southwestern United States. The Foundation’s primary resource is the Gray Ranch, a 1,320-square kilometer tract dedicated to conservation of southwestern ecosystems, maintenance of traditional rural livelihoods, and long-term ecological research. Academic responsibilities, including teaching, can be in Ecology & Evolutionary Biology, Geosciences, or School of Renewable Natural Resources. Send cover letter with names and telephone numbers of 3 references, curriculum vitae, and copies of up to 5 significant papers to: Dr. Jay Quade, Chair of Search Committee, Desert Laboratory, Department of Geosciences, University of Arizona, Tucson, AZ 85721; Telephone: (602) 621-2879 or 621-4051. Applications will be reviewed beginning February 7, 1994. The University of Arizona is an Equal Opportunity/Affirmative Action Employer. Women and minorities are urged to apply.

RESEARCH/PROTEIN STRUCTURE. A full-time position as a STAFF SCIENTIST is available in Pullman, Washington. The qualified candidate will be responsible for structural studies of bacterial chemoreceptors utilizing primarily electron microscopic techniques. This will include one-dimensional crystallization and formation of other ordered structures, analysis of these structures by electron microscopy and image processing. The candidate must have a Ph.D. in Biophysics or related area and minimum of five years of research experience after that degree in two-dimensional crystallization of membrane proteins, electron microscopy of membrane proteins, computer-based image analysis and electron diffraction techniques. The starting salary will be $29,500 per year. By March 1, 1994, send resume to: Employment Security Department, EBT Division, Job #47335, P.O. Box 9046, Olympia, WA 98507-9046. Equal Opportunity/Affirmative Action Employer.

COURSES AND TRAINING
NEW ENGLAND BIOLABS MOLECULAR BIOLOGY AND BIOTECHNOLOGY SUMMER WORKSHOPS.
We are pleased to announce the ninth annual summer workshops held at the Clark Science Center, Smith College, Northampton, Massachusetts. This intensive two-week course emphasizes hands-on molecular biology. No previous experience is required. The fee is $2,700 and includes room and board. Three sessions will be offered, June 5–18, June 26–July 9, and July 17–30, 1994. For further information, see our full-page ad which will appear in the February 4, 1994, issue of Science, or call (413) 584-3643.

MICROENCAPSULATION COURSE
How to, Hands-on, Microencapsulation Lab Short Course for biologists, pharmacists, chemists, life scientists and engineers, by Curt Thies, Professor of Chemical Engineering, Washington University, St. Louis, March 6–9, 1994. Telephone: (314) 935-6066.

Applications are invited for POSTDOCTORAL RESEARCH TRAINING POSITIONS in molecular, cellular or physiological aspects of developmental disorders. Appointments are for 2 years and applicants should hold M.D. or Ph.D. degree. Direct applications (curriculum vitae, statement of career objectives and 2 letters of reference) to: H. S. Immoto, Ph.D., Department of Pediatrics, Division of Endocrinology, 3000 Burnet Avenue, Cincinnati, OH 45229-3039. UC/CHMC is an Equal Opportunity Employer and encourages applications from qualified women and minorities.
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