**POSITIONS OPEN**

**ASSISTANT PROFESSOR**

**CHEMICAL SENSES**

The Department of Cellular and Structural Biology at the University of Colorado School of Medicine invites applications for a tenure-track position at the level of assistant professor. Preference will be given to applicants with research interests in the cell or molecular biology of chemical sensory systems, and especially research in smell, taste, or other conditions of ongoing research at the Rocky Mountain Taste and Smell Center. In addition to pursuing an active research program, the successful candidate will participate in the departmental teaching program. Applicants should have a Ph.D., or M.D. and appropriate postdoctoral training. Review of applications will continue until 1 September 1995. Please send curriculum vitae, a two-page description of current and future research and the names and addresses of three references: Dr. Thomas E. Finger, Search Committee Chair, Department of Cellular and Structural Biology, B-111, Colorado School of Medicine, 4200 East 9th Avenue, Denver, CO 80262. An Affirmative Action/Equal Opportunity Employer.

**ASSISTANT PROFESSOR**

**SECTION OF GENETICS**

DUKE UNIVERSITY MEDICAL CENTER

The Section of Genetics at Duke University Medical Center invites applications for a tenure-track, junior level faculty position. Individuals utilizing genetic approaches to address problems in most any important area of biology will be considered. This is a newly created academic unit that offers a cohesive and interactive research environment as well as an extremely attractive and generous package of research support. Applicants will be expected to develop a program of research plans, and the names of three references: Dr. Joseph R. Nevins, Section of Genetics, Duke University Medical Center, P.O. Box 3054, Durham, NC 27710. Duke University is an Equal Opportunity/ Affirmative Action Employer.

**BIOCHEMISTRY FACULTY POSITION**

UNIVERSITY OF WISCONSIN—MADISON

Applications are invited for an ASSISTANT PROFESSOR position in the Department of Biochemistry and the National Institutes of Science of the University of Wisconsin—Madison. Exceptional candidates at the associate professor level will be considered. The successful candidate will be expected to develop a strong research program utilizing modern biochemistry to study nutritional problems. This includes investigators with interests at the cellular and/or molecular level. Duties include teaching the departments’ graduate and undergraduate courses and the training of graduate and postdoctoral students. Applicants including curriculum vitae, publications, and a one-page summary of past accomplishments and future research plans should be sent to: H. F. DeLuca, Chairman, Department of Biochemistry, University of Wisconsin-Madison, 402 Henry Mall, Madison, WI 53706. Applicants must also arrange for three letters of recommendation to be sent to the same address. To assure consideration, complete applications should be received by 15 October 1991. The university is an Affirmative Action, Equal Opportunity Employer and encourages women and minorities to apply.

**HARVARD UNIVERSITY**

**ASSISTANT PROFESSOR**

**CELLULAR AND DEVELOPMENTAL BIOLOGY (CDB)**

The Department of Cellular and Developmental Biology intends to make an assistant professor appointment (entry level) effective September 1993. Our department covers a broad range of topics in cellular biology, developmental biology, and molecular genetics. We are seeking outstanding candidates in any of these fields. We strongly encourage applications from women and minority groups. Applications should include curriculum vitae, research statement, and three letters of recommendation. Review of applications will begin on 15 October 1991 by CDB Search Committee, Cellular and Developmental Biology, Harvard University, 16 Divinity Avenue, Cambridge, MA 02138, telephone: 617-495-2327. Harvard University is an Affirmative Action/Equal Opportunity Employer.

**UNIVERSITY OF SOUTHERN CALIFORNIA**

**FACULTY POSITIONS**

**DRUG DESIGN AND TARGETING**

Applications are invited for tenured-track ASSISTANT/ASSOCIATE PROFESSOR positions in the Department of Pharmaceutical Sciences, School of Pharmacy, University of Southern California. Candidates should have expertise in drug targeting and drug design using computational, molecular, and cellular approaches are invited to apply. Applicants are expected to possess a Ph.D. degree in the pharmaceutical, biological, or chemical sciences. Participation in team teaching in either pharmacutics or medicinal chemistry at both the undergraduate and graduate levels is required. Please submit curriculum vitae, selected reprints, a short statement of future research plan, and the names and addresses of three references to: W. R. Neidhardt, P.O. Box 1600, University of Southern California, 853 Zonal Avenue, Los Angeles, CA 90033-1086. An Equal Opportunity/ Affirmative Action Employer.

**RADIOBIOLOGIST**

The Department of Therapeutic Radiobiology—Radiation Oncology, University of Minnesota, is seeking applications for a tenured-track position at the level of ASSISTANT PROFESSOR. The beginning date of the position is 1 December 1991. Candidates must possess a Ph.D., M.D., or D.V.M. and have postdoctoral research experience in radiobiology using in vivo systems. The successful candidate will participate in ongoing research related to the treatment of cancer with radiation, hyperthermia and chemotherapy alone or in combination, and will also be expected to participate in teaching radiobiology. Salary open to negotiation based on experience. Financial support will be provided for the successful candidate while he/she develops his/her own research programs. Send curriculum vitae and three references to: Dr. Chang W. Song, Search Committee Chair, Department of Therapeutic Radiobiology—Radiation Oncology, University of Minnesota, Harvard Street at East River Road, Box 494 UMCIC, Minneapolis, MN 55455 before 1 September 1991. The University of Minnesota is an Equal Opportunity Employer and Employer.

**ASSISTANT PROFESSOR**

**PHYSIOLOGY**

UNIVERSITY OF PENNSYLVANIA

The Department of Animal Biology, School of Veterinary Medicine, has a full-time tenure-track opening for a physiologist to join an interactive, multidisciplinary department, within the biomedical community at the University of Pennsylvania. Individuals working at any level of analysis are encouraged to apply although the department's strengths is at the cell/molecular level. Applicants should have a Ph.D. degree in physiology or a related field and postdoctoral training, be prepared to maintain an independent, extramurally funded research program, and participate in training of graduate students. Send curriculum vitae and addresses of three referees in writing to: Dr. Michael Koelkoff, Department of Animal Biology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA 19104-6046. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.
University of Texas Southwestern Medical School announces

The PEPR Program for Recent M.D./Ph.D. Graduates

A Program for Excellence in Postgraduate Research

The University of Texas Southwestern Medical School, with support from the Lucille P. Markey Charitable Trust, has established a program to support independent research carried out by exceptional physician/scientists who have earned M.D. and Ph.D. degrees or the equivalent within the last five years.

* The PEPR program, which is designed to replace or supplement the usual postdoctoral apprenticeship, will provide three years of support for independent research in any aspect of biomedical science, including the fields of Biochemistry, Genetics, Pharmacology, Molecular and Structural Biology, Immunology, Pathology and Physiology.
* Successful candidates will occupy their own laboratory and office space in a newly-constructed, fully-equipped research facility.
* Each PEPR Fellow will be provided with an annual budget of approximately $130,000 to cover the costs of their salary ($60,000), that of a research technician, supplies for their research project and travel.

The PEPR Fellows will hold junior faculty positions in appropriate basic and/or clinical departments of the University of Texas Southwestern Medical Center.

Advice and guidance will be provided by a group of faculty of the University of Texas Southwestern Medical Center, including Drs. Michael S. Brown, Alfred G. Gilman, Joseph L. Goldstein and Joseph F. Sambrook.

Candidates are invited to apply for Fellowships beginning July 1, 1992. Each application must include:

* A curriculum vitae
* A one-page abstract of the proposed research
* A research proposal, not more than 8 pages in length, in double-spaced type. The proposal should be divided into Specific Aims, Background and Methods. It must include a full discussion of potential difficulties, both theoretical and practical, and should suggest methods by which these difficulties might be minimized or avoided.
* The names, addresses and telephone numbers of three referees.
* Reprints of papers published by the candidate.

Candidates should send a letter by September 30, 1991, stating their intention to apply to the PEPR Program. The deadline for receipt of completed applications is November 1, 1991. A short list of candidates will be invited for interview and successful candidates will be informed by January 10, 1992. The University of Texas Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer.

Applications and enquiries should be addressed to:

Dr. Joseph F. Sambrook
McDermott Center for Human Development
University of Texas Southwestern Medical Center
Dallas, Texas 75235–8591
Telephone: (214) 688-7574 FAX: (214) 688-7579

PENNSTATE

College of Medicine • University Hospital
The Milton S. Hershey Medical Center

CHAIR

Department of Biological Chemistry

Applications and nominations are invited for the position of Chair, Department of Biological Chemistry, The Pennsylvania State University College of Medicine. The Department has a tradition of excellence in research as well as teaching, and the individual research programs of the faculty are currently well supported by extramural funding. Current research strengths represented in the Department include: molecular genetics, biochemistry of cell surfaces, and protein-nucleic acid interactions. The Department offers courses covering various aspects of biochemistry, genetics, and molecular biology for medical and graduate students. The faculty directs its own departmental graduate program and also participates in three interdepartmental graduate programs and a College of Medicine M.D./Ph.D. program. Unique opportunities are available for departmental growth and development in a rapidly expanding academic medical center.

Candidates should be established investigators with a well-funded active research program, an outstanding record of scholarly contributions, and an active record of participation in appropriate professional organizations. Candidates should also have proven leadership skills and should be experienced in teaching and administration. The successful candidate is expected to provide imaginative leadership for current and future programs and to promote the national and international stature of the Department.

The deadline for application is October 31, 1991.

Applications with curriculum vitae and the names and addresses of three or more references should be addressed to:

Leonard S. Jefferson, Ph.D.
and Richard J. Courtney, Ph.D.
Co-Chairs, Biological Chemistry Search Committee
The Pennsylvania State University
College of Medicine
P.O. Box 850, Drawer S
Hershey, Pennsylvania 17033

An Affirmative Action/Equal Opportunity Employer
Women and Minorities are Encouraged to Apply.
The Department of Plant Pathology, College of Agriculture and Life Sciences, North Carolina State University, invites applications and nominations for the position of Professor and Head of the department. The position, which is currently filled by Dr. James J. Monaco, is a five-year term that will begin October 1, 2008. The Department of Plant Pathology includes faculty and research staff engaged in teaching, research, and extension activities in the field of plant pathology. The successful candidate will have a Ph.D. in plant pathology or a related discipline and a record of distinguished professional achievement as evidenced by publications and presentations in refereed journals and presentations at international meetings. The candidate will be expected to have a strong interest in developing an active research program in plant pathology and to be able to attract and manage research funding. The successful candidate will also be expected to have a strong interest in teaching, to participate in extension activities, and to contribute to the educational mission of the College of Agriculture and Life Sciences. The Department of Plant Pathology is committed to diversity and inclusion in all of its activities. Applications are invited from qualified individuals, including women, minority members, and individuals with disabilities. Applications will be accepted until the position is filled.

**POSITIONS OPEN**

**PROFESSOR AND HEAD DEPARTMENT OF PLANT PATHOLOGY**

The University of California, Los Angeles (UCLA), School of Medicine is recruiting for an outstanding individual for a newly endowed chair who is expected to have an outstanding record of achievement in the area of epilepsy and basic mechanisms of seizure disorders. Candidates can hold an M.D., Ph.D., or both degrees and must come from the fields of neurosurgery, basic science or related disciplines. Areas of interest include molecular biology, genetics, neuropharmacology, neurophysiology, neurochemistry or advanced medical imaging. The ideal candidate will have a background in particular strengths relevant to understanding clinical epilepsy and will be particularly attractive. This individual will be expected to further develop the Department's epilepsy research programs and engage in stimulating teaching and training in these areas.

**UCLA NEUROSCIENCE ENDOWED CHAIR**

The University of California, Los Angeles (UCLA), School of Medicine is recruiting for an outstanding individual for a newly endowed chair who is expected to have an outstanding record of achievement in the area of epilepsy and basic mechanisms of seizure disorders. Candidates can hold an M.D., Ph.D., or both degrees and must come from the fields of neurosurgery, basic science or related disciplines. Areas of interest include molecular biology, genetics, neuropharmacology, neurophysiology, neurochemistry or advanced medical imaging. The ideal candidate will have a background in particular strengths relevant to understanding clinical epilepsy and will be particularly attractive. This individual will be expected to further develop the Department's epilepsy research programs and engage in stimulating teaching and training in these areas.

**DIRECTOR, IOWA ENERGY CENTER IOWA STATE UNIVERSITY SCHOOL OF SCIENCE AND TECHNOLOGY**

Applications are invited for the position of director of the newly established Iowa Energy Center at Iowa State University in Ames, Iowa. The purpose of this center is to bring together researchers and faculty from across the University to improve the understanding of energy technology in all areas of Iowa energy use. This center will conduct and sponsor research in these areas and will develop new and innovative education programs that encourage implementation of alternative energy production and energy efficiency technology. Candidates must be leaders in the field of energy technology and have at least 7 to 10 years of relevant experience, a demonstrated understanding and commitment to the improvement of energy efficiency and the development of renewable energy technologies. Experience in obtaining funding and managing contract research would be a valuable asset. The successful candidate could come from energy companies, consulting firms, appropriate academic institutions, energy departments of state and federal government, research organizations and environmental organizations. This individual will have the leadership and administrative skills required to build a new organization. Submit curriculum vitae supplemented by any additional relevant information to: Birndorf, Marriott, Weaver and Company, P. O. Box 297-431, Bridgeport, NJ 08007, Attention: C. J. Fucella-DSU. The deadline for applications is 2 September 1993. Iowa State University is an Affirmative Action/Equal Opportunity Employer.

**DIRECTOR OF RESEARCH AND DEVELOPMENT**

A Massachusetts-based company engaged in the design, development, manufacture, sale and servicing of medical imaging devices has an immediate need for a highly skilled director of research and development to assume principal responsibility for directing research and development of medical x-ray imaging devices to be used for the quantitative measurement of bone mineral density. Responsibilities will include establishing all computer hardware and software specifications and performance specifications; and the development and implementation of multistcenter quality control programs and procedures. Parallel responsibilities required to collate and develop software packages for use by academic and pharmaceutical customers in the development of products and clinical and technical research protocols. Minimum requirements include a Ph.D. degree in electrical engineering, biomedical engineering or a related field and 4 years of relevant experience involving bone densitometry research and development, or at least 2 years of experience in medical imaging research. Specific requirements include the demonstrated ability to direct and supervise a team of advanced-professionals engaged in technical research, including computer and quality control programs. Also required is the demonstrated ability to evaluate and improve simultaneous calibration techniques in computerized densitometry systems. Details, including a demonstration ability to design advanced quantitative medical imaging processing algorithms. Finally required is the demonstrated ability to utilize both high-level (e.g., C, Fortran) and lower-level (e.g., Assembler, VAX-QIO, BIOS) programming languages sufficient to direct product development programs. Starting salary is $72,000 per year together with medical and life insurance, 2 weeks paid vacation, and other industry competitive benefits. Qualified applicants respond with resume only (two copies, non-solicited) to: Job Order #1995, Manager of Employment and Training, Charles F. Hurley Building, Boston, MA 02114. An Equal Opportunity Employer, M/F/H.

**MARKETING DIRECTOR**

Biotecnology supplier in the San Francisco Bay Area seeks highly qualified individual with broad business experience in sales and marketing and ability to direct a well-managed, newly formed and growing business. MBA, or related academic background, as well as training in the biological sciences and a broad perspective. New company and new market to be developed. Position will require significant travel and ability to work uncompromising hours. Salary to be commensurate with experience and potential. Please send résumé in confidence to: P.O. Box 77387, San Francisco, CA 94107. Attention: Personnel Department.
SANDOZ
SANDOZ RESEARCH INSTITUTE BERNE LTD., BERNE/SWITZERLAND

Our Institute as part of the Preclinical Research Department of Sandoz Pharma Ltd., Basle, is working in the fields of the Central Nervous System, Inflammation and Asthma. We have a position open for a

Cell-Biologist

with experience in cell-culturing, molecular biology and biochemical methods as well as in neurobiology (2 years postdoc).

This scientist will be part of an international and interdisciplinary team involved in research on new therapies in neurodegenerative diseases, in particular Alzheimer's disease.

Please send your detailed application to

SANDOZ RESEARCH INSTITUTE BERNE LTD., BERNE/SWITZERLAND

attn. Ms. Th. Roder, Personnel Manager, P.O. Box, Ch-3001 Berne/Switzerland.

PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH

FELLOWSHIP IN MOLECULAR NEUROBIOLOGY

The laboratory of Neurosciences, at the National Institute on Aging, Bethesda, Maryland invites applicants for a Fellowship position to study molecular biological aspects of the brain in relation to development and aging, neuroplasticity and Alzheimer's disease. The successful candidate will be expected to apply techniques of recombinant DNA and/or in situ hybridization to address differences in gene expression in health and disease.

Applications are invited from individuals having a Ph.D., M.D., or combined degrees. NIH is an equal opportunity employer and applications from women and minorities are invited. Interested candidates should submit their Curriculum Vitae to: Stanley I. Rapoport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, NIH, 9000 Rockville Pike, Building 10, Room 6C103, Bethesda, MD 20892.

Development Biochemist
Advanced Technologies Group

Pfizer, a multinational, research-based leader in health care and specialty chemical products, offers a challenging opportunity in production support at its Terre Haute, Indiana Specialty Chemicals facility.

Working in our Advanced Technologies Group, you will initiate and complete projects to enhance yield, quality and productivity of processes. This involves improving existing production processes, developing and evaluating in-process testing, and training staff in procedures and techniques necessary to perform laboratory experiments.

The qualifications required are a PhD in Biochemistry or a closely related scientific discipline, with emphasis on protein purification. Prior industrial experience is desirable.

We can provide all the professional and personal satisfactions of a Fortune 100 company, including a competitive salary, excellent benefits and relocation assistance. For confidential consideration, please send your resume and salary history to: Ms. Christina Batjer, Senior Personnel Supervisor, Pfizer Inc, P.O. Box 88, Terre Haute, IN 47808. An equal opportunity employer.
We are an Important French Laboratory, located near Paris. Our scientific and therapeutic innovations have granted us a world-wide reputation.

The Department of Angiology has a position available for its unit of HEMOBIOLOGY

BIOLOGIST - BIOCHEMIST (PhD)

The applicant has a Ph.D. training, has experience in the Biochemistry of blood coagulation platelet aggregation and in the Physiology and Pharmacology of these processes.

The successful candidate will assist in the discovery and development of original substances aimed at treating cardiovascular diseases. His/her relational qualities will permit his/her integration in our research division and will make him/her appreciated by all our collaborators.

The candidate sends handwritten letter and CV to PUBLIVAL/7023 · 27, route des Gardes 92190 Meudon · (FRANCE).

IMMUNO
AKTIENGESELLSCHAFT

Substantial investment in R&D, facilities and skilled personnel are the keys to the ongoing success of our company which specializes in biologicals.

We are seeking a

MOLECULAR BIOLOGIST

Applications are invited from molecular biologists for a research position in a team working on the development of new and improved bacterial vaccines. Excellent facilities and scientific backup are available to assist in achieving the goals of identifying, characterizing and expressing recombinant bacterial antigens.

The successful candidate must have experience of recombinant DNA techniques, preferably as applied to the study of bacterial pathogenicity. The applicant must hold a Ph.D. degree and should have post-doctoral experience.

The position is a challenging opportunity for candidates looking for a responsible job with ample scope for development. Attractive salary plus benefits package is available. Compensation for re-location expenses will be provided.

Our biomedical research center Orth, located close to Vienna, offers excellent working conditions in a small international team of motivated scientists.

Please send detailed résumé (including handwritten CV, remuneration required, date of availability) to REF 176/89.

IMMUNO AG
Personnel Department
Dr. Puliez
A-1220 Vienna, Industriestraße 67
Phone (43-1) 2300-2086
CALL FOR APPLICANTS

UNIVERSITY OF KENTUCKY
COLLEGE OF MEDICINE

DEPARTMENT OF ANATOMY AND NEUROBIOLOGY
UNIVERSITY OF KENTUCKY, COLLEGE OF MEDICINE
A. B. CHANDLER MEDICAL CENTER

The University of Kentucky College of Medicine is seeking applicants for the position of Chair of the Department of Anatomy and Neurobiology. The Department is one of the six basic science departments in the College of Medicine, responsible for teaching principles of anatomical sciences and neuroscience to medical, dental, physical therapy, physician assistant, pharmacy and undergraduate students. The department also conducts a program of research training for graduate students, residents and postdoctoral fellows. The 20 faculty of the Department conduct individual and collaborative programs of research that are communicated in the form of publications and oral presentations at regional, state, national and international professional meetings. We are seeking candidates with a Ph.D. or M.D. degree (or equivalent degree), an outstanding record of achievement in the fields of anatomy and neuroscience, experience in or potential for academic administration and an ability to provide strong leadership. Women and minorities are encouraged to apply. Applicants should submit a curriculum vitae, to be received not later than Sept. 9, 1991 to:

Emery A. Wilson, M.D., Dean
University of Kentucky, College of Medicine
A. B. Chandler Medical Center, Room MN 150
800 Rose Street
Lexington, Kentucky 40536-0084

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

PHARMAGENESIS

Pharmagenesis, a young, dynamic, and growing drug discovery company, is seeking highly motivated individuals to join expanding research programs in bone metabolism. Pharmagenesis is also developing programs in haematology and immunology for screening of putative agents isolated from natural products.

Bone Metabolism BS / MS / PhD Scientists: Join natural product drug discovery programs in osteoporosis and bone growth. If you have a strong technical and theoretical background in cell and organ culture, join projects to:

- Identify and develop pharmaco logically active agents from natural products for osteoporosis and bone healing.
- Develop in vitro and in vitro bioassay systems involving automated enzyme and immunoassay methodologies.

Pharmagenesis is also interested in receiving applications of haematology, immunology, and organic chemistry.

Pharmagenesis offers a competitive salary and a comprehensive benefits package. Send full resume: Dr. D.R. Henderson, V.P., R&D, Pharmagenesis, 3183 Porter Drive, Palo Alto, CA 94304.

REGENERON PHARMACEUTICALS

REGENERON PHARMACEUTICALS is making rapid progress in the basic understanding of neuronal growth factors and how these proteins can treat degenerative and traumatic neurological disorders.

Openings now exist in the Neurobiology Department for scientists and research associates with interests and skills in the following areas: (1) kinetics, pharmacology, distribution, and quantitative image analysis of protein and organic radioligand binding to tissue sections or homogenates; (2) in vitro and in vivo analysis of neurochemical changes following central and peripheral growth factor administration; and (3) the use of established tests and development of novel tests for measuring behavioral capacities after peripheral or central neural injury and neurotrophic factor administration.

Scientist and Postdoctoral positions require a Ph. D. and/or M.D. degree and extensive experience and publications in either of these three areas. Experience with animal models of central peripheral nerve disease or traumatic injury, PNS neurophysiology, or neuronal plasticity is also desirable for Scientist positions.

Openings also exist in the Cellular and Molecular Biology Department for scientists and research associates (B.S., M.S., Ph.D.) and postdoctoral fellows with training and/or interest in the chemical and biological characterization of growth factors and their receptors. Experience in protein purification, peptide synthesis, or in primary, secondary and tertiary structural analysis of proteins would be advantageous.

Regeneron’s modern facility is located on an expansive wooded campus in Westchester County, 25 miles north of Manhattan. The highly collaborative and supportive Regeneron community offers considerable scientific and professional growth potential.

Please send your resume and a cover letter indicating the relevant position, the names of 3 or more references, and your immediate career goals to: Ms. Carol Deaken, Bin IV (Neurobiology positions) or Bin CMB (Cellular and Molecular Biology Positions).

REGENERON PHARMACEUTICALS, INC.
777 Old Saw Mill River Road
Tarrytown, NY 10591-6707

Equal opportunity employer.

REGENERON
Pharmaceuticals, Inc.
DIRECTOR LABORATORY FOR MACROMOLECULAR STRUCTURE PURDUE UNIVERSITY

We seek a director for the campus-wide protein and nucleic acid structure facility at Purdue University. The director will have oversight responsibilities for two protein microsequencers, two oligonucleotide syntheses, a DNA sequencer, a peptide synthesizer, a microtiter HPLC system, and other additional instrumentation including high sensitivity amino acid analysis and capillary electrophoresis systems. The director should have a Ph.D. or 5 years of experience at the M.S. level. The director will direct the technical personnel of the facility; oversee of maintenance, quality control, scheduling, and the like; develop, design, and implement the annual budget; and consult with users of the facility regarding strategies and effective uses of the instrumentation. The director will work closely with the director of the campus-wide microscopy facility, especially as applied to peptide and protein structural analyses.

Interested candidates should contact: Mark Hermodeson, Associate Professor, Purdue University, West Lafayette, IN 47907. Telephone: 317-494-1637; FAX: 317-494-7897.

Purdue University is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR, ONCOLOGY CENTER

The Johns Hopkins University School of Medicine and The Johns Hopkins Hospital are seeking a physician scientist to lead our Department of Oncology, which is also a Comprehensive Cancer Center. The center is one of the largest academically integrated programs in the nation. Applicants should have evidence of leadership qualities and demonstrated outstanding abilities in research and teaching as well as the capability to direct the service mission of the center.

Please send letter of application, curriculum vitae and bibliography to:

Dr. John D. Sevag
Chairman, Oncology Search Committee
The Johns Hopkins University
The Johns Hopkins Hospital
1830 East Monument Street
Baltimore, MD 21205

An Affirmative Action/Equal Opportunity Employer.

U.S. DEPARTMENT OF ENERGY
ASSOCIATE DIRECTOR FOR OFFICE OF BASIC ENERGY SCIENCES OFFICE OF RESEARCH EXCHANGE $87,000 TO $103,300 PER ANNUM

The Department of Energy (DOE) is seeking applicants for the basic energy sciences directorate associate director for basic energy sciences (BES). The incumbent plans, directs, and manages a $700-million basic research program that supports a broad range of studies in the understanding of materials, chemical and engineering sciences, geosciences, and energy biosciences which will serve as the basis for advances in energy conservation, conversion and use, and related environmental protection. The associate director will have a major impact on the content and direction of the BES Program, through the establishment of the appropriate balance between fundamental research and scientific disciplines and between research and scientific facility construction and operation. Experience required in managing a large, complex basic energy research programs and in transferring basic research knowledge to technical applications. Ph.D. in the physical sciences or engineering preferred. Applications must be postmarked by September 19.

Difficulty in recruitment may result in a recruitment bonus, waiver of dual compensation or annual pay set up to $50,000 less a corresponding overtime.

Direct inquiries to: Executive Resources Division, AD-113.1., FORS, DOE, Washington, DC 20585.


UNIVERSITY OF HONG KONG
READER/SENIOR LECTURER IN BIOCHEMISTRY REFERENCE 91/92-6

Applications are invited for a readership/senior lecturership in the Department of Biochemistry, tenable from 1 October 1991. As expected for a highly productive scientist, teaching experience is essential. Applicants with medical or dental qualifications may have an advantage. Candidates may be expected to have experience in an area of research, including immunology, molecular biology, protein chemistry etc. The appointee will be expected to take a considerable burden of administrative work, especially in respect of organizing the research course for 3rd year and 4th year students; in addition to preparing qualifications for admissions; thus solid administrative experience would be an advantage.

Annual salaries (superannuable) are on the scales: reader HK$453,780 to HK$602,880; senior lecturer, HK$435,000 to HK$584,430 (US$1 = HK$7.70 as of 28 June 1991). Starting salary will depend on qualifications and experience. Salaries tax will not exceed 15% of gross income. Housing at a charge of 7.5% of salary, children's education allowances, leave, and medical benefits are provided. Details of the position may be obtained from: Appointments (39617), Association of Commonwealth Universities, 36 Gaddesden Square, London WC1H OFF, UK; or from the Appointments Unit Registry, University of Hong Kong, Hong Kong (Fax: 852-5921589; E-mail APPTUNIT@HKUVM-HKUH.EDU.HK). Recently 13 September 1991.

FURTHER particulars and application forms may be obtained from: Appointments (39617), A.C.C.U., 36 Gaddesden Square, London WC1H OFF, UK; or from the Appointments Unit Registry, University of Hong Kong, Hong Kong (Fax: 852-5921589; E-mail APPTUNIT@HKUVM-HKUH.EDU.HK). Closing 13 September 1991.

A FACULTY POSITION in the Division of Medicine at Boston University School of Medicine is available now. The applicant will be expected to teach pre- and postgraduate students and to be responsible for both transgenic and nontransgenic experiments. Ph.D., D.Sc., or equivalent, at least 3 years of laboratory research, and experience in embryonic development and molecular biology is required. Salary and position commensurate with qualifications. Send curriculum vitae and correspondence to: Dr. Victoria Herrera, University of Miami School of Medicine, Room L-219, 80 East Concord Street, Boston, MA 02118-2384.

THE UNIVERSITY OF WESTERN ONTARIO DEPARTMENT OF PLANT SCIENCES

NSERC WOMEN'S FACULTY AWARDS. The Department of Plant Sciences at The University of Western Ontario wishes to nominate an outstanding female graduate student with a Ph.D. degree in either (1) the genetics of higher plants, or (2) plant population biology. Our primary goal is to select a nominee of the highest caliber for a nomination of an internationally respected program. The nature of the research program is secondary.

The successful candidate will be appointed to a tenure-track position and will have teaching and research responsibilities for the first few years. The department already has several young faculty members with international reputations and has outstanding facilities for research in both genetics and population biology. Recent additions to these facilities include a molecular genetics suite, shared with zoology, in the life sciences building. Applications for the department, and a unique 82-acre field station devoted to plant growth and broad-based environmental science studies (Environment and Society Institute, Western Campus). There are also excellent opportunities for research collaborations on campus with medical and agricultural scientists.

Candidates wishing to apply for this position should send curriculum vitae and a letter of reference to be sent from three referees to: Dr. Alan W. Day, Chair, Department of Plant Sciences, The University of Western Ontario, London, Ontario, Canada N6A 5B7.

Position is subject to budget approval. In accordance with Canadian Immigration requirements, this advertisement is issued on behalf of the President and Vice-Chancellor of the University of Western Ontario. The University of Western Ontario is committed to Employment Equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.

FACULTY POSITION IMMUNOLOGY

The Department of Pathology at Tufts University School of Medicine invites applications from candidates with a background in the cellular or molecular aspects of the immune system. Preference will be given to established investigators with a record of research productivity, however, applications from highly qualified junior investigators will also be considered. This tenure-stream appointment can be at any level commensurate with an applicant's experience. Send curriculum vitae and the names of three referees to:

Dr. Naomi Rosenberg
Department of Pathology
South Cove 315
Tufts University School of Medicine
136 Harrison Avenue
Boston, MA 02111

Tufts University is an Equal Opportunity Employer.

Ph.D., Pharm.D.: Applications are invited for a combined TEACHING AND RESEARCH POSITION. Rank and salary commensurate with teaching and research experience. Applicants should send curriculum vitae, a statement of research interests/plans, and the names and addresses of three references to: Robert E. Mancini, Ph.D., D.O., Department of Pharmacology, Toxicology and Experimental Therapeutics, New York College of Osteopathic Medicine, P.O. Box 170, Old Westbury, NY 11568. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. The Jefferson Cancer Institute of Thomas Jefferson University has a postdoctoral position available to study the structure and functional aspects of et's oncogene and its related genes [see Cancer Res. 50, 5013 (1990); Science 244, 66 (1989); PNAS 86, 635 (1989); PNAS 87, 635 (1987); PNAS 84, 6131 (1987)]. Ongoing studies are focused on the sequence-specific DNA binding, the transcriptional activation, the expression and purification of et protein, the protein-protein and cell-cell interactions, and a role of the et's gene in leukemias. Experience in recombinant DNA techniques or biology is desirable. Please send Curriculum Vitae, plus the names and addresses, and phone numbers of three references to: E. Shym Reddy, Ph.D., Thomas Jefferson University, Jefferson Cancer Institute, 1022 Locust Street, Philadelphia, PA 19107-5541. We are committed to a smoke-free environment. Equal Opportunity Employer.
Sr. Research Scientists

We're a Madison, WI based biotechnology company, with 220 employees worldwide, and an industry leader in the application of biochemistry and molecular biology towards the development of novel, high-value reagent systems for the research laboratory. Our rapid growth has created several exciting career opportunities for creative, PhD-level R&D Scientists in our Research Products Group.

**Molecular Biologist**

**Gene Mapping**

We seek a PhD in the biological sciences, with a strong background in eukaryotic genetics and genome mapping by RFLP analysis and in situ hybridization. Extensive experience in YAC cloning systems, cosmid mapping, Southern blot analysis and pulse field gel electrophoresis is essential; familiarity with linkage analysis software is desirable.

**Molecular Biologist**

**Eukaryotic Transcription**

The ideal candidate will have a PhD in Molecular Biology or related area, with 2 years' postdoctoral/inustrial study of transcriptional regulation, plus in-depth knowledge of basic molecular biology emphasizing eukaryotic regulation at the transcriptional and post-transcriptional levels.

**Cell Biologist**

**Cellular Regulation**

We require a PhD in Cell Biology or related field, with 2-4 years' postdoctoral/inustrial study of cellular oncogenes, as well as experience in the methods of producing and studying cellular oncogenes, and extensive knowledge of current literature regarding cellular regulation.

**Bioorganic Chemist**

**Nucleic Acid Chemistry**

Candidates should possess a PhD in Biochemistry or Bioorganic Chemistry, with 2 years' postdoctoral/inustrial experience in nucleic acid or protein labeling chemistry. Also, we seek a background in nucleic acid and protein dye-labeling chemistry, with the requisite organic synthesis, chromatography and analytical techniques.

We offer a competitive salary, comprehensive benefits, and a challenging, high-growth environment in modern facilities. Please forward your resume and salary history, in strictest confidence, to: Human Resources/SCI, Promega Corporation, 2800 Woods Hollow Road, Madison, WI 53711-5399. An Equal Opportunity Employer.

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**POSTDOCTORAL POSITION IN STEM CELL BIOLOGY**

The Procter & Gamble Company has an immediate opening for an industrial postdoctoral (or sabbatical) scientist in stem cell biology at its Miami Valley Laboratories in Cincinnati, Ohio. This one-year appointment will focus on the isolation of epithelial stem cells and characterization of their differentiation pathways and offers a unique opportunity to interact with both industrial and academic scientists in an applications oriented environment.

The candidate must have a Ph.D. in a life science area, preferably cell biology or biochemistry, with one or two years of relevant experience in methods of stem cell isolation and characterization and a genuine interest in their application to complex biological systems. The ability to work as a member of a multidisciplinary team is required.

We offer a competitive salary, relocation expenses, and an attractive benefits package. Candidates must be presently authorized to work in the U.S. on a full-time basis and should send their resume and publication list to:

Dr. T.J. Logan, Manager Technical Recruiting Cell Biology Position, Dept. RC The Procter & Gamble Company P.O. Box 398707 Cincinnati, OH 45239-8707

An Equal Opportunity Employer.

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**DEPARTMENT HEAD**

**Pharmaceutical R&D**

Use your 5+ years of related experience to develop protein formulations for clinical trials. Your background should include a PhD in Pharmaceutics, Bio/Chemistry, or a related science, plus experience with HPLC, protein chemistry, analytical method development, stability studies, lyophilization, and drug delivery. SCIENTISTS/RESEARCH ASSOCIATES: Positions also available at the BS and MS levels with 2-10 years' experience and PhD level with 0-3 years' experience. Dept. PB/JW

**SENIOR RESEARCH ASSOCIATE/SCIENTIST**

**Process Development**

Design and scale up protein purification processes. Knowledge of HPLC, GMP and/or process validation experience is highly desired. Positions available at the BS and MS levels with 2-7 years' experience and PhD level with 0-3 years' experience. Dept. PS/SW

**SENIOR RESEARCH ASSOCIATE**

**Pre-Clinical**

Design, perform, and analyze renal, cardiovascular and endocrine studies. Pharmacokinetic and Pharmacodynamic experience is preferred. A BS in Physiology or a related science and 2-6 years' experience are required. Dept. LG/SW

Please send your resume or C.V., indicating appropriate Dept. code, to: California Biotechnology Inc., Human Resources, 2450 Bayshore Pkwy., Mountain View, CA 94043. Or FAX to: (415) 968-2438. EOE
A tenure-track position is available immediately in the Department of Pharmacology and Toxicology at the University of Mississippi Medical Center in Jackson, Mississippi. Applicants should have an M.D. or Ph.D. degree and should have experience in the use of fluorescence and electron microscopy in areas such as neuropharmacology/toxicology, developmental pharmacology/toxicology, immunopharmacology, or macromolecular morphology. Salary and rank commensurate with education and experience. The successful applicant will be expected to develop an independent, extramurally funded research program and participate in the teaching activities of the department. Interested persons should send curriculum vitae and a brief description of research interests and arrange for three letters of reference to: Beth Hoskins, Ph.D., Chairperson of Search Committee, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 35216-4505. Equal Opportunity Employer, M/F/H/V.

**FACULTY POSITIONS PHYSIOLOGIST AND TOXICOLOGIST**

Positions available starting October 1991. Minimum qualifications: master's degree in physiology or toxicology or pharmacology/chemistry with a background in cell culture. Submit curriculum vitae and three letters of recommendation to: Dr. Saroja K. Reddy, Chair, Physiology/Chemistry Department, Palmer-Sprague, 1000 Bay Street, Davenport, IA 52803. Equal Employment Opportunity/Affirmative Action.

**POSTDOCTORAL POSITION**

The Department of Biochemistry and Cell Biology at Rice University announces the availability of a postdoctoral position for biological and physiological studies of hemoglobin and myoglobin. Strong background in either rapid reaction techniques or molecular biology is desired. Projects will involve the construction, preparation, and characterization of site-directed mutants. Available immediately. Salary will depend on experience. Send resume and three letters of recommendation to: Dr. John S. Olson, Professor, Department of Biochemistry and Cell Biology, Rice University, P.O. Box 1892, Houston, TX 77251. Rice is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**

The Jefferson Cancer Institute of Thomas Jefferson University has a postdoctoral position available to study function of ras/gap genes and their role in development. Candidates with a Ph.D. degree in molecular biology or cell biology are urged to apply. Submit curriculum vitae and three letters of reference to: Tapan Som, Ph.D., Thomas Jefferson University, Jefferson Cancer Institute, Jefferson Alumni Hall, Room 485, 1020 Locust Street, Philadelphia, PA 19107-8799. We are committed to a smoke-free environment. Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS**

Molecular Vi- 

ology, Children's Hospital in Columbus, Ohio, currently has postdoctoral position available (fall/winter 1991) to study the pathogenesis, prevention, and treatment of simian immunodeficiency virus (SIV) infection in macaques and the pathogenesis of AIDS in children. Spacious, well-equipped laboratories include a 3-L facility. Send curriculum vitae and three letters of reference to: Philip R. Johnson, M.D., Room W309, Wexner Center for Pediatric Research. Resumes will be reviewed. Children's Hospital of Columbus, OH 43205. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION IN BIOCHEMICAL TOXICOLOGY**

Position available to study the mechanism of action of the dioxin receptor. Regulation of expression of dioxin-responsive genes and toxicity by the dioxin receptor. Send curriculum vitae and three letters of recommendation to: Dr. Gary H. Perdew, Department of Food Science and Human Nutrition, University of Florida, P.O. Box 11470, Gainesville, FL 32611. Equal Employment Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS IN MOLECULAR ENDOCRINOLOGY**

Applications are invited for postdoctoral positions to study mechanisms of regulation of the prolactin gene. Position available September 1991. Research involves investigations of intersecting pathways mediating regulation by cell-specific mechanisms, peptides, hormones, and dopamine. Send curriculum vitae and names of three references to: Dr. Gary H. Perdew, Department of Food Science and Human Nutrition, University of Florida, P.O. Box 11470, Gainesville, FL 32611. Equal Employment Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS IN MOLECULAR TOXICOLOGY**

Two positions are available to study mechanisms of tissue-specific regulation of newly identified disease genes. These positions will participate in a multidisciplinary study on molecular mechanisms of disease biology. Send curriculum vitae and names of three references to: Dr. William F. Greenlee, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, 2500 North Street, Jackson, MS 35216-4505. Fax: 317-494-1403. Telephone: 317-494-7880. Purdue University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION IN VASCULAR BIOLOGY**

Available immediately to study cerebral circulation and brain function in a well-funded, productive laboratory. Emphasis will be on cellular and molecular approaches to elucidation of control mechanisms of vascular functions in normal and damaged vessels, and interactions between vessels and cells. Please send curriculum vitae with names and addresses of three references to: Dr. David Busija, Department of Physiology and Pharmacology, Bowman Gray School of Medicine, 3501 Spruce Street, Winston-Salem, NC 27187-1083.

**POSTDOCTORAL POSITION IN NEUROSCIENCE**

The Perinatal Research Institute and Division of Pediatric Endocrinology of The Children's Hospital Medical Center/University of Cincinnati College of Medicine have two Post-Doctoral Research Positions available for Ph.D.s or M.D.'s interested in the regulation of prolactin and placental lactogen gene expression in human cells. Applicants should have experience in molecular biology, tissue culture, and general protein chemistry. Send curriculum vitae and names of three references to: Stuart Handsworger, M.D., Division of Endocrinology, Children's Hospital Medical Center, E. 1st and Bethesda Avenues, Cincinnati, OH 45229, or FAX: 513-559-7486. Salary commensurate with experience. Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION**

University of Florida, College of Pharmacy, Department of Pharmacology, has a postdoctoral position available August 1991, to study contractile protein function in macrophages and mast cells. Comprehensive knowledge of molecular biology is preferred. Investigations will include generation of mutant actin regulatory proteins and transfection of nonmuscle transfection. Send curriculum vitae and names of three references to: Dr. Frederick Southwick, Professor and Chief, Box J100277 JHMMC, Gainesville, Florida 32610. An Equal Employment Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**

At University of California, San Francisco. Position available immediately to study molecular biology of hormone expression and action: (i) interaction of growth factor receptor genes with the parathyroid hormone receptor, (ii) PTH-related protein (PTHrP) as a differentiation factor, and (iii) regulation of PTHrP gene expression in tumor cells. Prefer experience in endocrinology, e.g., mammary cell expression or transcription. Please send curriculum vitae with names/telephone numbers of three references to: Dr. R. A. Naber, Endocrine Unit, 3333 California Street, San Francisco, CA 94117. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**

Available immediately to study the molecular biology of the marine immune system and its responses to viral pathogens under the direction of Dr. Ronald C. Kennedy. Research will include: (1) isolation and characterization of immunoglobulin genes; (2) production and characterization of recombinant immunoglobulins in eukaryotic expression systems. Expertise in molecular biology is essential. Experience with murine immunological systems helpful. Send curriculum vitae, a summary of research interests and the names and telephone numbers of three references to: Dr. R. A. Naber, Endocrine Unit, 3333 California Street, San Francisco, CA 94117. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**

McGill University

Available immediately to study the role of dopamine in memory, reward and analgesia using in vivo voltammetry. Send curriculum vitae and names and telephone numbers of three references to: Dr. Michael R. Lerner, 510 TMP, Molecular Neurobiology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. An Equal Opportunity Employer.

**POSTDOCTORAL POSITION**

Harvard University

Available immediately to study the molecular mechanisms of neurodevelopment in Drosophila and zebrafish. Experience in biochemistry, molecular biology or neurobiology required. Salary at NIH scale or higher. Send curriculum vitae, a summary of research interests, and the names and addresses of three references to: Dr. K. Hartline, Psychol- ogy Department, McGill University, 1205 Dr. Pen- field Avenue, Montreal Quebec, Canada H3A 1B1. Fax: 514-392-4896.

**POSTDOCTORAL POSITION**

Harvard University, 1205 Dr. Penfield Avenue, Montreal Quebec, Canada H3A 1B1. Fax: 514-392-4896.

**NIH POSTDOCTORAL FELLOWSHIP IN RECEPTOR GENES**

Available immediately in laboratory studying molecular expression and function of a recently identified candidate tumor suppressor gene associated with neural crest tumors. Experience in molecular biology and/or gene expression systems required. Send curriculum vitae, summary of research interests, and the names and addresses of three references to: Dr. D. George, Department of Human Genetics, Clinical Research Building, 422 Curie Boulevard, University of Pennsylvania, Philadelphia, PA 19104-6145. We are an Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS**

Postdoctoral positions available to participate in full characterization of the expression and function of a recently identified candidate tumor suppressor gene associated with neural crest tumors. Experience in molecular biology and/or gene expression systems required. Send curriculum vitae, summary of research interests, and the names and addresses of three references to: Dr. D. George, Department of Human Genetics, Clinical Research Building, 422 Curie Boulevard, University of Pennsylvania, Philadelphia, PA 19104-6145. We are an Equal Opportunity Employer.

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**POSTDOCTORAL POSITIONS**

Positions available immediately to study molecular biology of hormone expression and action: (i) interaction of growth factor receptor genes with the parathyroid hormone receptor, (ii) PTH-related protein (PTHrP) as a differentiation factor, and (iii) regulation of PTHrP gene expression in tumor cells. Prefer experience in endocrinology, e.g., mammary cell expression or transcription. Please send curriculum vitae with names/telephone numbers of three references to: Dr. R. A. Naber, Endocrine Unit, 3333 California Street, San Francisco, CA 94117. An Equal Opportunity/Affirmative Action Employer.
Innovative research at Sandoz has been enhancing medicine around the world for over 100 years — improving the quality of life for countless individuals and revolutionizing scientific concepts. Sandoz Research Institute, the U.S. pharmaceutical R & D division of Sandoz, Ltd., currently seeks a qualified professional for the following opening in Preclinical Research. Our postdoctoral positions are for a period up to two years.

**NMR SPECTROSCOPIST/CELL BIOLOGIST**

The NMR laboratory at Sandoz is soliciting applications for a Postdoctoral Associate to set up a system to observe aspects of growth and metabolism in cell cultures in support of our therapeutic areas. The candidate should have a PhD in Cell Biology, Biochemistry or a related field and have NMR experience. Expertise in bioreactor or perfused organ technology is highly desirable.

Being part of the research team at Sandoz has many advantages. Our salaries and benefits programs are designed to attract top candidates and provide them with the resources to produce their best. Comprehensive health, dental, and savings plans as well as fitness and athletic facilities are all provided at our attractive location in northwest New Jersey, which also allows for outstanding academic, cultural and outdoor pursuits. For consideration, please respond to position #533 by forwarding your resume, in confidence, to:

Robert N. Saunders, PhD  
Director, Human Resources  
SANDOZ RESEARCH INSTITUTE  
SANDOZ PHARMACEUTICALS CORP  
East Hanover, New Jersey 07936  
An Equal Opportunity Employer M/F/H/V

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**SCIENTISTS & RESEARCH ASSOCIATES**

ImClone Systems Inc., an innovative biotechnology company developing diagnostics, vaccines and therapeutics for the human health care market, has career opportunities available in the following areas:

**IMMUNOLOGY/MONOCLONAL ANTIBODIES**  
Ph.D. and B.S. level candidates with experience in cellular or molecular immunology with interests in vaccines, cancer therapeutics or inflammation.

**MOLECULAR BIOLOGY**  
Ph.D. level candidates with experience in recombinant DNA methodology, protein expression, vector construction and PCR procedures.

**PROTEIN CHEMISTRY**  
Ph.D., B.S. and M.S. level candidates with experience in the isolation and characterization of eukaryotic and prokaryotic recombinant protein molecules, HPLC, FPLC, immunoassay techniques and large scale purification work.

**DNA PROBES**  
B.S. level candidates for Production Technician, Quality Control Technician, and Research Technician positions. Desirable experience includes DNA purification and sequencing, and hybridization; GC systems.

Enjoy all the diversity and excitement New York City has to offer while you earn a competitive salary and a wide range of benefits. Please send your CV and salary requirements to: ImClone Systems Incorporated  
Human Resources Dept.  
180 Varick Street  
New York, New York 10014.  
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National Institutes of Health  
Public Health Service  
Department of Health And Human Services

**Chief, Laboratory of Molecular Genetics**

The Intramural Research Program of the National Institute of Aging (NIA), Baltimore, Maryland invites nominations and applications for the position of Chief, Laboratory of Molecular Genetics. This is a Civil Service Position. Starting salary commensurate with qualifications and experience. Candidates may be eligible for Physicians’ Comparability Allowance up to $20,000 per year. Alternatively, candidates may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.

The Chief of the Laboratory of Molecular Genetics will be responsible for conducting and coordinating research on basic mechanisms of aging, on the genetic response of cells to damaging environmental agents, on factors involved in cellular senescence and proliferation, on age associated diseases and disabilities.

Applicants must have a Doctoral degree with a record of outstanding scientific accomplishment in the field of Molecular Genetics. In addition, applicants should possess qualifications that demonstrate competence in executive level management and leadership ability.

Further information may be obtained by contacting Ms. Karen Maben at (301) 550-1733. An Application for Federal Employment (SF-171) with a current curriculum vitae and bibliography should be submitted to: Personnel Office Gerontology Research Center, National Institute of Aging, 4940 Eastern Avenue, Baltimore, Maryland 21224.

U.S. Citizenship Required  
NIH is an Equal Opportunity Employer
POSTDOCTORAL POSITION. Available immediately, studying the structure and function relationships of cell adhesive glycoproteins. Experience in protein chemistry/molecular biology desirable. Please send curriculum vitae and names of three references to: Dr. C.-S. Lai, National Biomedical ESR Center, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. Equal Opportunity/Affirmative Action Employer, M/F/H.

POSTDOCTORAL FELLOWSHIP. Available immediately for molecular biologist with recent Ph.D. or M.D. to work as part of an interdisciplinary team investigating cellular receptors involved in cell motility. Applicants should have experience in molecular cloning techniques; experience in biochemistry helpful. The appointment is for 2 years with an opportunity for career advancement. The position is funded through the University of Pennsylvania. The research activities will be conducted primarily at the Roche Institute for Molecular Biology, Nutley, New Jersey.

Please send curriculum vitae including names and addresses of three references to: Douglas Cines, M.D., Hematology-Oncology, 7 Silverstein Pavilion, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104.

POSTDOCTORAL FELLOWSHIP—RETROTRANSPOSON GENE VECTORS. Ph.D. in a field related to molecular biology. Experience in genetics, virology or retroviruses helpful. The candidate will participate in the development of new tools for gene therapy and transgenesis, while investigating the regulation of a novel recombination system. Send curriculum vitae to: Dr. Clague Hodgson, Creighton Cancer Center, California at 24th Street, Omaha, NE 68178, FAX: 402-280-2384 or telephone: 402-280-2388. Available immediately.

POSTDOCTORAL ASSOCIATE in Virology. The Department of Molecular Virology, University of Wisconsin, is seeking an experienced virologist to participate in projects involving the molecular biology and genetics of retroviruses. Send curriculum vitae and names of three references to: Dr. M. L. O'Connor, The University of Wisconsin, PO Box 8225, Madison, WI 53708. Available immediately for a term of three years. Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP. The Department of Molecular Biology, Cleveland Clinic Foundation, has positions available immediately in the following laboratories: (1) H. W. Kester: molecular genetics of AIDS virus/host interactions. (2) M. L. Harter: molecular activities of viral oncogenic protein/effects on host cell division. Experience in molecular biology/tissue culture/protein analysis is required. Please address all applications or inquiries to the investigator of interest to: The Department of Molecular Biology, The Cleveland Clinic Foundation, NC2-147, 9500 Euclid Avenue, Cleveland, OH 44195-5285.

RESEARCH FELLOW. To study the in vivo and in vitro endocrine, parasite as well as autocrine regulation of placental proteins and hormones, including hCG, hCG-subunits, hFL, IGFBP, and decidua-hCG-inhibitory protein (DCIP). Ph.D. in biology or biochemistry plus 2 years of postdoctoral training.

Knowledge of endocrinology in clinic and laboratory. Familiar with techniques of tissue and cell culture, histochermistry, protein purification, hormone measurements (radioimmunoassay and bioassay), immunoprecipitation, extraction of DNA and RNA, Western blot and Northern blot. Salary: $2,753 per month. Place of employment and interview: Los Angeles, California.

Send this ad and your résumé to: Job #BLW 9267, P.O. Box 9560, Sacramento, CA 95823-0560 not later than 24 August 1991.

POSTDOCTORAL FELLOWSHIP at the University of Pennsylvania. Immediate opening available to study pharmacology and cellular mechanisms of sleep/wake behavior. Experience in electrophysiology required. Send curriculum vitae and three letters of reference to: Dr. Richard J. Ross, Research Service (151), VA Medical Center, University and Woodland Avenue, Philadelphia, PA 19104. FAX: 215-573-2004.

POSTDOCTORAL FELLOWSHIP MAYO CLINIC. A postdoctoral fellowship is available immediately to study structure/function relationships of the acyl-CoA dehydrogenase gene family at the molecular level. Applicants should have completed their Ph.D. training. Experience in molecular biological techniques and/or protein purification is desirable. Send curriculum vitae and names of three references to: Jerry Vockley, M.D., Ph.D., Department of Medical Genetics, Mayo Clinic, Rochester, MN 55905.

POSTDOCTORAL ASSOCIATE positions (2) available immediately for research into mechanism and action of platinum antitumor agents. One position requires background in synthetic coordination chemistry while the second position requires experience in molecular biology techniques related to DNA properties. Send résumé to: Dr. N. Farrell, Department of Chemistry, University of Vermont, Burlington, VT 05405-0125. An Equal Opportunity/Affirmative Action Employer. Applications from women and people of diverse racial, ethnic, and cultural background are encouraged.

POSTDOCTORAL ASSOCIATE POSITIONS. Two positions are available as of 1 October 1991 for NIH-supported studies on protein translocation in bacteria. Salary is $37,000 per annum. Send curriculum vitae by 30 August 1991 to: Dr. P. C. Tai, Biology Department, Georgia State University, P.O. Box 4010, Atlanta, GA 30302-4010. Georgia State University, a unit of the University System of Georgia, is an Equal Opportunity Educational Institution and an Equal Opportunity/Affirmative Action Employer (22362).
POSTDOCTORAL FELLOW
CYSTIC FIBROSIS RESEARCH AT THE
HOSPITAL FOR SICK CHILDREN

To join a laboratory applying biochemical, immunological and molecular techniques to the elucidation of the structure-function relationships of the Cystic Fibrosis Transmembrane Conductance Regulator. CFTR is the first ion channel from non-excitable tissues for which the primary structure is known. Novel features of its function have broad relevance beyond the primary goal of understanding CF.

The HSC Research Institute situated within the larger Biomedical Community at The University of Toronto is at the forefront of molecular studies of human diseases; postdoctoral stipends are competitive.

Send CV to Dr. J. R. Riordan
The Hospital for Sick Children
555 University Avenue, Toronto
Ontario, Canada M5G 1X8
FAX (416) 598-7099

EMBL

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, Germany, has the following vacancy:

STAFF SCIENTIST

Applications are invited for an independent 3-year research position in the laboratory of Dr. Sara A. Courtneidge. Our research is focused on exploring mechanisms of signal transduction, primarily involving the src family of protein tyrosine kinases. Model systems employed include transformation by polyomaviruses, and growth factor-stimulated mitogenesis of fibroblasts.

The successful applicant will have a demonstrated ability in research, including 1-2 years of postdoctoral experience, and a background in either biochemistry or molecular biology.

We offer an above-average salary, plus certain allowances depending on personal circumstances.

Informal enquiries should be directed to Sara Courtneidge, Telephone: (49) 6221 387 426; Telefax: (49) 6221 387 516.

Applications, including a curriculum vitae and the names, addresses and telephone numbers of three referees should be sent, quoting reference number 91/42, to the Personnel Section.

ICI RESEARCH FELLOWSHIPS

Applications are invited from experienced postdoctoral scientists for independent research positions in the Cambridge Centre for Protein Engineering. Two positions are available, in the field of X-ray crystallography and molecular genetics. The posts are for a period of up to 5 years; salary will be in the range £15,481-£23,427; starting date, from October 1991, is negotiable. These positions are supported by the LINK initiative, and Fellows will have the opportunity of liaising with, and taking advantage of, expertise and facilities within ICI, whilst pursuing their own research within the remit of the Centre. The remit of the Centre covers all aspects of protein engineering.

The Centre is under the Directorship of Professor Alan Fersht and Dr Greg Winter, and has new laboratories at the Medical Research Centre in Hills Road and NMR Facility at the Cambridge University Chemical Laboratory. The Centre has its own high-field NMR spectrometers, and shares computing and X-ray crystallographic facilities with the MRC Laboratory of Molecular Biology.

Applicants should submit a research proposal of some 4 pages which will be used as the basis for selection (if necessary applicants may contact the Directors directly for an informal discussion of their proposals). Applications should also include a full CV and the names and addresses of three professional referees. They should be sent to the Personnel Officer, MRC Centre, Hills Road, CAMBRIDGE, CB2 2QH, UK, quoting reference IRC/RF, to arrive no later than Friday 6 September 1991.
Scientific Director
Diabetes Research Institute
University of Miami
School of Medicine

The University of Miami invites nominations and applications for Scientific Director of the Diabetes Research Institute. This position is a unique and prestigious opportunity for an M.D. and/or Ph.D. with a distinguished record in diabetes and/or diabetes-related research.

The Scientific Director will supervise a multi-disciplinary research effort in a newly constructed research and clinical care facility. This new Diabetes Research Institute contains 45,000 square feet of research space including 10,000 square feet of unfinished shell space. There is also an ambulatory clinic of 25,000 square feet dedicated to a comprehensive, multi-disciplinary care program. This facility also houses a clinical research unit for early translation of basic research to the diabetic patient.

During the next five years, the Diabetes Research Institute Foundation and the University of Miami will recruit 15 clinical and basic scientists with appointments in appropriate basic or clinical departments. These scientists will be co-recruited by the Scientific Director and department chairperson.

Interested candidates for the Scientific Directorship should submit curriculum vitae, names and addresses of three references, and a statement of present and future research interests to:

Richard Bunge, M.D.
Co-Chairman of Search Committee
University of Miami School of Medicine
P.O. Box 061960 (R-48)
Miami, Florida 33101

or

George Cahill, M.D.
Co-Chairman of Search Committee
Upton Pond
Stoddard, New Hampshire 03464

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A New Lab

Let the free Science product information service put you in touch with the vendors whose products you will need.

Simply write us a letter stating the specifics about your proposed lab and the instruments and supplies you need. We will do the rest. Write to:

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

**Control Biotechnology Laboratory**

Postdoctoral position in analytical protein chemistry is available immediately in the Control Biotechnology Unit at the Upjohn Co. The project involves the development of micro-analytical separation methodologies to characterize structural heterogeneity of recombinantly-derived therapeutic proteins. Emphasis will be placed upon the utilization of the high resolving power of electrophoretic separations to isolate protein impurities and the development of methods that permit recovery and subsequent analysis by multiple analytical techniques. Characterization methods will include N-terminal sequencing and peptide mapping interfaced with mass spectroscopy detection. The position requires a Ph.D. in Chemistry or Biochemistry, with previous experience in the separation of protein by HPLC and electrophoresis and interest in the development of techniques to perform micro-sequencing and micro-peptide mapping.

Interested individuals are invited to send their curriculum vitae, names of three references, and cover letters to: THE UPJOHN COMPANY, SCIENTIFIC RECRUITING/POSITION 91007-069, 7000 PORTAGE ROAD, KALAMAZOO, MI 49001 USA. Refer to this position code in your correspondence. An Equal Opportunity Employer M/F.

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**BIOTECH UPDATE**

Novel receptor ligands play a vital role in new product discovery.

American Cyanamid Company has a longstanding and highly successful commitment to the discovery and development of new products through innovative scientific research. At our Agricultural Research Division, you'll be part of a winning team which has produced 17 new products in 4 years.

**Microbial Molecular Biologist**

Our Molecular Genetics Group seeks a BS/MS level scientist to work on the expression and analysis of G-protein linked receptors in microbial systems. These proteins form an important family of microbial, mammalian and insect receptors that participate in a wide variety of cell signaling functions.

In this position, you will identify novel receptor ligands to be used for new product development through the application of molecular and cell biology, and genetic techniques (e.g. gene cloning, characterization and expression, DNA sequencing, and Northern, Southern and Western analyses). A strong background in microbial molecular biology and genetics is required. Training and experience in the areas of yeast molecular biology and/or receptor pharmacology are highly desirable.

American Cyanamid Company offers an excellent compensation and benefits package which includes 401(k) savings plan and flex-time work schedules. We invite you to forward your resume to: Employment Office, Dept. DK, American Cyanamid Company, Agricultural Research Division, P.O. Box 400, Princeton, NJ 08543-0400. An Equal Opportunity Employer M/F/H/V.
POSTDOCTORAL FELLOW/JUNIOR RESEARCH ASSOCIATE Position available immediately to study at the molecular level the role of tumor suppressor genes in human breast cancer. Experience with recombinant DNA technology is required. Opportunity to interact with active scientists working on breast cancer prognostic indicators and to learn additional techniques (i.e., epithelial cell culture, fluorescent in situ hybridization on interphase cells, and immunohistochemistry). Send curriculum vitae, description of research interests, long-term goals, relevant prior research or experiences (no more than three references) to: Dr. Helen Smith, Director, Geraldine Brach Cancer Research Institute at California Pacific Medical Center, 2330 Clay Street, San Francisco, CA 94115. An Equal Opportunity/Affirmative Action Employer.

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RESEARCH ASSOCIATE Immediately available NIH-supported postdoctoral position to study the function and structure of testicular macrophages. Experience in immunology, reproductive biology or cell biology required. Send curriculum vitae and three letters of recommendation to: James C. Heaton, Department of Cell Biology, Texas Tech University Health Sciences Center, Lubbock, TX 79430. Telephone: 806-743-3712. Equal Employment Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE/JUNIOR FACULTY To conduct research in the area of smooth muscle, electrical activity, and ion channels. The candidate must have an excellent background in pharmacology with specialized skills in microelectrode techniques and patch clamp. M.D. or Ph.D. degree should also have an M.D. degree in physiology or pharmacology and 2 years of research experience at postdoctoral level. The position and salary range will be commensurate with candidate's qualifications. Women and minorities are encouraged to apply. Send resume to: Dr. Raj K. Goyal, Division of Gastroenterology, San Diego VA Medical Center, 330 Brookline Avenue, Boston, MA 02215. We are an Equal Opportunity/Affirmative Action Employer.

AQUATIC ENVIRONMENTAL SCIENTIST The San Francisco Bay-Delta Aquatic Habitat Institute (AHI) seeks environmental scientist to perform field and laboratory research, evaluate data and synthesize published information. Ph.D., 5 years of experience including project management in estuarine ecology, hydrodynamics, environmental chemistry, aquatic toxicology, or fisheries. Chemosphere or related M.S. 5 plus years of relevant experience and publication record considered. Salary negotiable, benefits. Curriculum vitae and references to: AHI, 180 ERS, 1301 South 46th Street, Richmond, CA 94804, by 30 September 1991. Equal Opportunity Employer.

CELL PHYSIOLOGIST/BIOLOGIST. This section of Emergency Medicine invites applicants for a research associate position in the Department of Medicine. The position is in a fast-moving and dynamic discipline and a commitment to developing strong basic science research in a clinical department. Candidates with interests in molecular and cell biology and experimental surgery are particularly encouraged to apply. Highly competitive salary. Please submit resume and concise statement of research interests to: Dr. Lance Walker, Research Director, Section of Emergency Medicine, University of Chicago Hospitals, 5841 South Maryland, Box 448, Chicago, IL 60687. An Affirmative Action/Equal Opportunity Employer.
Pharmacology

The Pharmacology Department of Merck Sharp & Dohme Research Laboratories in West Point, Pennsylvania, has a postdoctoral fellowship position available for a highly motivated scientist interested in joining our growing cardiovascular research program. The successful candidate will participate in the study of K+ channels in isolated cardiac cells and cloned channels expressed in Xenopus oocytes.

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RESEARCH ASSOCIATE

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Scientist

Infectious Disease

The Medical Research Division of American Cyanamid Company currently has a staff position available in the Infectious Disease Research Section of Lederle Laboratories.

The successful candidate will have a Ph.D. in microbiology with research experience in animal virology and 1-2 years postdoctoral research. Knowledge of biochemistry of virus infection and/or experience with in vitro/in vivo evaluation of antiviral agents is highly desirable. Excellent oral and written communication skills essential.

Responsibilities include supervision of laboratory personnel involved in the evaluation of substances for antiviral activity and conducting independent research leading to the discovery and development of antiviral drugs. This individual will be expected to have extensive interactions with other research groups within the Infectious Disease and Molecular Biology Research Departments.

Located at the Lederle Laboratories campus of American Cyanamid in Pearl River, New York, just 25 miles north of New York City, we offer a competitive salary and comprehensive benefits. For consideration, please send your resume with salary history to: Professional Employment Office, Dept. MO, Lederle Laboratories, 401 N. Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer M/F.

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PRIMATOLOGIST. New Mexico Regional Primate Research Laboratory (NMRRP) seeks a primatologist to head their Behavioral Biology Division. Applicants should have a Ph.D. in anthropology, biology, psychology, or related field. A minimum of 3 years of related experience. Record of publications, external funding, and experience with captive primates required. Send curriculum vitae and three letters of reference by 23 August 1991 to: Joanne Wenda, Artie A. Horsfall Memorial Primate Research Center, Behavioral Biology Division, NMRRP, P.O. Box 267, Albuquerque, NM 88135.

SCIENTISTS II. Sandoz Crop Protection is a division of Swiss-based Sandoz Ltd. with a commitment to agricultural research in North America and the crop protection business world. The innovative bioregional approach to research offers a stimulating and challenging work environment. Currently we are seeking an intermediate level scientist. Responsibilities include designing, carrying out and evaluating research as a member of an established team. Requires an M.S. in plant pathology (M.S. in plant sciences with relevant experience). Training in molecular biology (DNA, RNA and protein assays) necessary: academic, field and/or greenhouse experience with plant diseases highly desirable. For consideration, please send résumé to: Sandoz Crop Protection, Human Resources Department, 975 California Avenue, Palo Alto, CA 94304-1104. Affirmative Action/Equal Opportunity Employer.
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