At Abbott Laboratories, our professionals are researching, developing and marketing the health care products that will make a significant impact on generations to come. As we expand our research efforts, the Neuroscience Research Area of our Pharmaceutical Products Division is seeking creative, highly motivated individuals for several positions within a multi-disciplinary drug discovery team. The ideal candidates will be team-oriented individuals with a record of accomplishments as evidenced by publications, and a background in pharmaceutical drug discovery.

MOLECULAR BIOLOGIST
You will be responsible for the cloning and expression of novel ligand-gated ion channel and G-protein coupled receptors. The ideal candidate will be a Ph.D. scientist with 2-5 years of postdoctoral experience in molecular biology and demonstrated expertise in DNA cloning and gene expression. Research experience in neurobiology/neuropharmacology is preferred. (Job #96-JLW-0396)

BIOCHEMICAL PHARMACOLOGISTS
The ideal candidates will have a Ph.D. in Pharmacology, Biochemistry or Neurobiology with 3+ years of postdoctoral experience. Research experience in biochemical pharmacology, including enzyme and radioligand binding assays, and functional assays in isolated tissues/cultured cells relevant to ligand-gated ion channels and G-protein coupled receptors is essential. (Job #96-JLW-0418)

ELECTROPHYSIOLOGIST
The successful candidate will be a Ph.D. scientist with 2-5 years postdoctoral experience in electrophysiology. Demonstrated expertise in patch and voltage clamping and extracellular recording methodology and experience with oocyte expression systems is essential. Research experience in neurobiology/neuropharmacology is preferred. (Job #96-JLW-0703)

ASSOCIATE ELECTROPHYSIOLOGIST
The ideal candidate will have a B.S./M.S. in Biology with at least 2-5 years laboratory experience in electrophysiology. Research experience in patch and voltage clamping and extracellular recording techniques, as well as oocyte expression systems is required. A knowledge of neurobiology and pharmaceutical drug discovery experience would be an advantage. (Job #96-JLW-0704)

NEUROBIOLOGIST
The ideal candidate will have a Ph.D. in Neurobiology with 3+ years of postdoctoral experience. Research experience in biochemistry, cell biology and pharmacology is desirable. Demonstrated expertise in the isolation and characterization of novel receptors/signal transduction mechanisms is essential. (Job #96-JLW-0417)

With 50,000 employees worldwide, and more than $10 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please send your resume with salary history to: Abbott Laboratories, Job # ___, D583, AP6B, 100 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.
We recognize that diverse perspectives are a key factor in the process of discovery.

Combining the best of science, health and environmental discovery, Amgen continues to emerge as one of the most forward-thinking biotechnology companies in the industry. With two beautiful campuses, Thousand Oaks, California and Boulder, Colorado there are even more opportunities worth discovering here than you imagined.

TRANSGENIC MODELS/ES CELL RESEARCH SCIENTIST
(THOUSAND OAKS, CA)
The successful candidate will assist in developing technology for screening the function of novel gene products and will establish a strong research program in an area of company interest. Candidates must have a Ph.D. in Molecular Biology or related discipline, post doctoral training, and typically up to 2 years' experience working with transgenic models and ES cells. Experience with gene-trap and/or YAC/BAC technology is desirable. (Job Code TPSC9476)

ANTI-INFLAMMATORY RESEARCH SCIENTIST
(BOULDER, CO)
We seek a Research Scientist to join our anti-inflammatory drug discovery team. Qualified candidates will have a Ph.D. in Biochemistry, or related field and previous post-doctoral training. Candidate must have proven experience in protein purification and characterization, as well as mammalian cell culture. Preferred candidates will have a record of research accomplishments and previous industry experience. (Job Code BPSC2466)

POST DOCTORAL FELLOW
(BOULDER, CO)
The requirements for this position include a Ph.D. in the Life Sciences or a related field. The applicant will have typical academic experience in the areas of cell culture, animal handling, hemopoietic assays, and cell biology. Advanced scientific analysis and technical writing are key elements of your responsibility. General knowledge of intercellular pathways involved in TNF signalling and expertise in cDNA library construction and screening are preferred. (Job Code BPSC2893)

RESEARCH SCIENTIST
(BOULDER, CO)
The requirements for this position are a Ph.D. in the Life Sciences or the equivalent, and post doctoral training or related experience. Additionally, the applicant should typically have two years of experience in a research or laboratory setting designing and conducting complex experiments. Advanced scientific analysis skills and troubleshooting skills, and advanced laboratory work skills are essential. Knowledge of IND’s and NDAs, and previous experience in inflammation research transduction, gene cloning and expression are a must. (Job Code BPSC3201)

RESEARCH ASSOCIATE/RESEARCH SCIENTIST
(BOULDER, CO)
The Quantitative Biology group of Inflammation Research seeks highly motivated scientists at the bachelor, master, and doctoral level who have typically 3-5 years’ experience doing industrial assay development and high throughput screening. Qualified candidates will have substantial working experience developing and implementing high throughput screening assays using ORCA, Tecan, Packard, Beckman, Hamilton, and/or Zymark robotic systems. Knowledge of multiple assay types is expected, including ELISA’s, RIAs, enzyme assays, receptor binding assays, cell adhesion, activation and/or signal transduction assays. (Job Code BPSC2727)

We offer a highly competitive compensation and benefits package. For immediate consideration, please mail your resume to: Amgen, Job Code: see above), P.O. Box 2569, Thousand Oaks, CA 91319-2569. E-mail: jobs@amgen.com. Please consult our on-line Job Bulletin Board at http://amgen.bio.com for information on other career opportunities available at Amgen. Principals only, please.
**Positions Open**

**TENURE-TRACK FACULTY POSITION**

**Mammalian Cellular Physiologist**

The Department of Animal and Nutritional Sciences in the College of Life Sciences and Agriculture at the University of New Hampshire (UNH) invites applications for an academic year as ASSISTANT PROFESSOR position (60% teaching; 40% research) in the area of mammalian cellular physiology, starting August 1996. The successful candidate will be expected to teach 12 credit hours of courses per year, to include a one-semester undergraduate cell physiology course and, on alternating years, one semester of an existing undergraduate general biology course and a one-semester graduate course in the area of specialty. The candidate should have a strong research expertise that utilizes contemporary approaches to investigate physiological processes, and complements existing strengths, which include adipocyte physiology, cancer biology, vascular or reproductive physiology, and nutritional biochemistry. We seek candidates with a Ph.D. and postdoctoral experience. The successful candidate must have a strong commitment to excellence in teaching, and is expected to establish an independent research program that actively involves graduate (Ph.D. and M.S.) and undergraduate students. Candidates should send curriculum vitae, a statement of teaching experience and philosophy, a description of research interests including accomplishments and future directions, and names and addresses of at least three references to: Search Committee Chair, New England, Department of Animal and Nutritional Sciences, 10288 Durant Hall, Durham, NH 03824. FAX: 603-862-3758. The closing date for applications will be August 28, 1996. Women and minorities are encouraged to apply. UNH is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITIONS**

**PHARMACOLOGY AND TOXICOLOGY**

School of Medicine and Public Health, Medical College of Wisconsin

The Department of Pharmacology and Toxicology is seeking highly qualified applicants to fill full-time, tenure-track positions for ASSISTANT PROFESSOR. Applicants must have a doctoral degree in a relevant area and a minimum of two years of postdoctoral or equivalent research or teaching experience. Candidates should have a strong record of research accomplishments, be committed to developing an independent, extramurally funded research program, and be willing to participate in graduate and medical team teaching. Preference will be given to applicants applying modern methods of biochemical, molecular biology, and cell biology to receptor mediated mechanisms, signal transduction, or toxicology. Facilities include core laboratories for peptide/DNA synthesis, sequencing and analysis, flow cytometry, LC/GC/MS, NMR, ESR, and cell culture. Competitive salaries and start-up funds are available. Applicants should send a curriculum vitae, statement of research interest and plans, three relevant publications, and names of three references to: Search Committee Chair, Department of Pharmacology and Toxicology, Medical College of Wisconsin, 8701 Waterfront Plaza Road, Milwaukee, WI 53226. Medical College of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITION**

**in drug delivery/acellular drug transport technology, College of Pharmacy and Allied Health Professions, Wayne State University (WSU).**

The Department of Pharmaceutical Sciences is seeking candidates for a tenure-track position anticipated to be available October 1, 1996 in drug delivery/acellular drug transport technology with focus on cellular, molecular and biological aspects. The successful candidate will maintain a research program and be responsible for directing and assessing the quality of student research. Candidates for this position are expected to establish a funded research program and will be responsible for the direction and assessment of student research. Qualifications include: demonstrated record of publication, three letters of reference, and salary competitive with the market. Please send curriculum vitae, a statement of research interests and plans, and three letters of reference to: Search Committee 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. All buildings, structures and vehicles at WSU are smoke-free. Wayne State University—People working together to provide quality service.

**Positions Open**

**UNIVERSITY OF PENNSYLVANIA**

**MEDICAL SCHOOL**

**Department of Pharmacology**

and

**The Center for Neurobiology and Behavior**

The Center for Neurobiology and Behavior and the Department of Pharmacology are recruiting a senior-level, tenure-track FACULTY member to add strength in behavioral and molecular pharmacology at the Penn Medical School. Candidates must have M.D./Ph.D. or Ph.D. in neurobiology or pharmacology, and they must have an established research program. Candidates should be employing cellular and molecular biological techniques to study changes in behavior induced by drugs and/or pharmacological manipulation. Areas of interest might include regulation of neurotransmitter receptors, control of the hypothalamic-pituitary-adrenal axis, and the effect of stress or drug abuse on neurotransmission.

The Center is interdisciplinary and is an integral part of the Institute for Neuroscience, complementing and extending the programs of the Departments of Neuroscience, Pharmacology, and Psychiatry with an integrated systems approach to mammalian and human behavior. Renovated laboratory space and generous start-up funds are available. This position is a tenure one.

Applicants should submit a cover letter, a curriculum vitae, selected reprints or preprints, a statement of research interests, and three letters of recommendation to:

**Chairman's Office**

Department of Pharmacology

Medical School of the University of Pennsylvania

Philadelphia, PA 19104

The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are especially encouraged.

The Department of Cell Biology at the University of New Mexico School of Medicine invites applications for a tenure-track position in molecular pharmacology or medicinal chemistry as ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Applicants are required to hold a Ph.D. in a related field of study and should have at least two to four years of postdoctoral experience. Applicants will be expected to demonstrate evidence of originality and the ability to maintain a vigorous, externally funded research program, as well as to develop, secure, and maintain productivity. Candidates should also possess effective teaching skills for participation in Graduate training programs. The Department consists of nine faculty applying the techniques of molecular biology and genetics to the study of cells and viruses. We seek an individual with compatible interests who will contribute to the growth of a stimulating, intellectual environment. Applicants should send a curriculum vitae, a description of research plans, and names of three references to: Charles Golden, Search Coordinator, Faculty Search Committee, Department of Cell Biology, Cancer Therapy and Research Center, University of New Mexico School of Medicine, Albuquerque, NM 87131. Deadline for receipt of application is June 1, 1996. The University of New Mexico is an Affirmative Action/Equal Opportunity Employer.

**Physical Sciences Librarian**

California State University, Long Beach

Provides a full range of professional services to students and instructional faculty in a highly automated general reference environment: instruction, collection development, reference, consultation, and support services. Applicants must be at the SENIOR ASSISTANT or ASSOCIATE Librarian rank ($38,016 to $78,588). A detailed position description and application procedures are available from University Library and Learning Resources Administrative Office, Telephone: 310-985-7839. An Equal Opportunity/Affirmative Action Title IX Employer.

TEACHERS needed for 1996–97 school year at new urban public charter school. Oly pioneers need apply! Must have degree in one of the following: physics/physical science, biology, math, or computer science; must also be willing to teach other subjects. The school will submit all applications. Students are chosen for their interest in and aptitude for science/math. Our school has a support organization of scientists who provide additional resources including state-of-the-art equipment and materials. Résumés to: Barbara MacPhee, Principal, New Orleans Science and Math High School, 980 Navarre Avenue, New Orleans, LA 70124. FAX: 504-485-1832.
NRC is a dynamic, nationwide R&D organization committed to helping Canada realize its potential as an innovative and competitive nation. Combining our strengths — outstanding people, core science expertise and information, research programs focused on key technologies and technology diffusion — with those of industrial and academic partners, we foster Canada's emerging national system of innovation.

You can make a difference at NRC!

Research Officer
Plant Biotechnology Institute (PBI)
Saskatoon, Saskatchewan

Your Challenge
In consultation with other members of the Cereal Biotechnology Group, you will be a major contributor to ongoing research to develop cereal genetic transformation methodologies as well as wheat and barley transgenics with improved agronomic performance and/or value-added traits. You will also see to the development, adaptation and/or optimization of in vitro regeneration protocols and genetic transformation protocols for various genotypes of wheat and barley. In addition, you will participate in project planning and reporting, create research and development interactions with outside collaborators including industry, and manage the financial, human and physical resources associated with a research laboratory.

Your Credentials
You must have a PhD in a specialization related to plant biotechnology, with emphasis on plant improvement using in vitro regeneration and genetic transformation. In addition, you require extensive experience, as evidenced by publications, in the research of in vitro regeneration, the genetic transformation of cereals such as wheat or barley, and the analysis and inheritance of transgenes in transgenics. You must also be experienced in biological research and the associated planning of laboratory experimentation, the interpretation of results, the preparation of research publications, and the use of various biochemical and molecular techniques to assay and analyze inserted genes.

Knowledge of English is essential, and an enhanced reliability check will be conducted.

Salary range: Commensurate with qualifications. Relocation costs may be negotiable.

To explore this opportunity, send your application by May 31, 1996, indicating reference number PB-96-03-5C, to the: Recruitment and Staffing Group, National Research Council Canada, Montreal Road, Building M-58, Ottawa, Ontario K1A 0R6.

NRC is an equal opportunity employer. We thank all those who apply and advise that only those selected for further consideration will be contacted.

Vous pouvez obtenir ces renseignements en français.

Bayer Corporation, Pharmaceutical Division, located near Raleigh, NC is seeking to establish a new research team specializing in the areas of Virus Detection and Inactivation, and Biochemistry Research to meet the needs of our expanding Biological Products business. Several scientific openings exist.

BIOCHEMISTRY RESEARCH SCIENTISTS

These positions will be dedicated to the identification and development of therapeutical proteins from human plasma. Both positions require a Ph.D. in Biochemistry, Hematology, or a related field with a minimum of 2-4 years of relevant research experience. Successful candidates will have demonstrated their expertise as independent investigators in one of the specialty areas listed below as well as a thorough knowledge of enzyme kinetics. Experience in cell culture techniques is highly desirable. Candidates will be expected to initiate novel, product-directed research and to function effectively in a team-oriented environment. In addition to a strong intramural program, significant collaborations with academic research laboratories are anticipated.

Position 95-42: This individual will focus on the purification and characterization of coagulation proteins, as well as other serine proteases and plasma proteins.

Position 95-43: This individual will focus on the purification and characterization of complement proteins, as well as other serine proteases and plasma proteins.

VIROLOGY RESEARCH SCIENTISTS

The Viral Research group is dedicated to the research and development of novel methods for viral detection and inactivation. Both positions require a Ph.D. in Virology, Molecular Biology, or Biochemistry. The specifics are identified below. In addition to a strong intramural program, significant collaborations with academic research laboratories are anticipated.

Position 94-107: This position requires a minimum of 5-7 years of relevant experience in the characterization of molecular interactions at the protein or nucleic acid level, experience in molecular and biological analytical methods is required. Responsibilities include the establishment and operation of high throughput screens for the detection of viral inactivating compounds and methods employing biochemical based strategies. In addition, the incumbent will be expected to provide technical leadership and laboratory supervision.

Position 95-39: This position requires a minimum of 4 years of relevant experience in the development of in vitro tissue culture methods to evaluate virus infection. Experience with the culture of non-enveloped viruses is desirable.

These positions offer an attractive compensation package commensurate with qualifications. Send resume with position number clearly identified to: Human Resources Manager, Bayer Corp., P.O. Box 507, Clayton, NC 27520.

An Equal Opportunity Employer M/F/D/V
The Miami Project to Cure Paralysis

The Miami Project to Cure Paralysis at the University of Miami School of Medicine, a multidisciplinary research effort to develop strategies to improve function after spinal cord injury, has announced a search for the position of Scientific Director. Candidates must hold an M.D. and/or Ph.D. degree, have an internationally recognized reputation for strong original contributions to the field of neuroscience, and have research and teaching experience commensurate with the rank of Professor. Administrative experience or demonstrated leadership potential preferred. Applications will be received and reviewed until the position is filled. 

ASSISTANT PROFESSOR

Department of Pathology
University of California, Irvine

The Department of Pathology, College of Medicine, University of California, Irvine seeks candidates to fill a junior (tenure-track) faculty position at the Assistant Professor level. The individual selected should be trained in one of the disciplines in clinical pathology with a special emphasis on laboratory medicine, and show strong potential for developing an outstanding, independent research program. We seek a specialty board eligible/certified individual who is also eligible to receive a California Medical License. The candidate will be engaged in clinical practice in laboratory medicine and the teaching of medical students and residents. Both M.D. and Ph.D. degrees preferred. Send curriculum vitae, statement of research interests, and names and addresses of three references. Review of applications will begin by April 30, 1996 to: Yutaka Kikkawa, M.D., Professor and Chairman, Department of Pathology, University of California, Irvine, CA 92717. The University of California, Irvine: rooted in education, challenged by diversity.

CELIBILOGIST/MICROBIOLOGIST

We have approval for a one-year REPLACEMENT POSITION starting July 1996. Ph.D. required and teaching experience. The successful candidate will team-teach courses in cell biology in fall and spring. Also, the person will teach a 400 level seminar course in Advanced Cell Biology and an introductory microbiology course. There also may be opportunities for directing undergraduate students in research. Please forward a letter of application with curriculum vitae, statement of teaching philosophy, and three letters of recommendation by April 22, 1996 to: Dr. Randy Fuller, Chair, Biology Department, Colgate University, Hamilton, NY 13366.

JOHN SLOCIN DICKEY DIRECTOR

Dartmouth College is seeking to fill the position of DICKEY DIRECTOR. Applications at Dartmouth College receive national recognition. The College seeks a distinguished scholar with extended experience in international affairs and connections with international research and programs for the position.

Review of applications will begin on May 1, 1996. For a full description of the advertisement, please write: Chair, DICKEY Committee, Dartmouth College, 604 Parkhurst Hall, Room 204, Dartmouth College, Hanover, NH 03755-3529.

THE UNIVERSITY OF ILLINOIS CHICAGO

The University of Illinois (UIC) College of Medicine at Peoria invites applications for the dual position of INSTRUCTOR (50% time) and ASSISTANT TO THE CHAIR AND INSTRUCTOR (50% time). Responsibilities will include: (1) formulation and interpretation of academic/administrative policies; (2) representation of the Chair of the Department; (3) enhancement of relationships with institutions and agencies; (4) membership on committees; (5) assistance in recruiting faculty; (6) development of administrative procedures for matriculating and advancng students; (7) involvement in departmental and institutional assignments; (8) implementation of biomedical research projects in neurosciences, pharmacology, and polymer physics; and (9) contribution to the University and the academic community. Applications will be reviewed until the position is filled. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

STAFF POSITION

FOOD AND DRUG ADMINISTRATION

Center for Devices and Radiological Health

Responsibilities include conducting applied research on the performance of biodegradable and bioimplants, especially in the mechanisms and rates of their degradation; contributing to technical support for Center regulatory decisions on medical devices, such as engineered tissue, that incorporate biodegradable polymers; making written and oral presentations to various groups; and working in an interdisciplinary setting.

A degree in polymer chemistry, biotechnology, materials science, or related field is required. Applicants must have demonstrated laboratory research experience with novel polymeric materials. Experience with biopolymers, polyactic, polyglycolic, or polyanhydride polymers is desirable. Familiarity with one or more of the following: hydrolysis, oxidation, chemical kinetics, macromolecular-cell interactions, GPC, surface microscopy, or other methods of analytical chemistry, will be needed.

Applications will be accepted at the GS-12/13 level ($44,867K) depending upon experience. For additional information please contact: Dr. LeRoy W. Schroeder, Chief, Materials Chemistry, Division of Mechanics and Materials Science, HZ-150, 12200 Wilkins Avenue, Rockville, MD 20852. Telephone: 301-443-7003; Fax: 301-443-5259; Email: LYS@FDADR.CDRH.FDA.GOV. FDA is an Equal Opportunity Employer and is a smoke-free workplace.

FACULTY POSITION

University of Texas Medical Branch at Galveston

Applications are requested for a tenure-track faculty position at the level of ASSISTANT or ASSOCIATE PROFESSOR in the Sealy Center for Oncology and Hematology. A newly established research facility at the University of Texas Branch in Galveston. Active research areas at the center include viral oncocenosis, translational research, and the role of protein kinases in hemostatic signal transduction. The candidate should hold a Ph.D. and/or M.D. degree and have demonstrated a research program, preferably in the field of cell cycle regulation. Applicants should submit curriculum vitae and a description of research interests to: Dr. Alan P. Fields, Faculty Search Committee, Sealy Center for Oncology and Hematology, University of Texas Medical Branch, Medical Research Building, Room 9.104, 301 University Boulevard, Galveston, TX 77555-1048. Equal Opportunity/Affirmative Action Employer, Minorities/Females/Disabled/Veterans. Hires only employees authorized to work in the U.S.

HARVARD UNIVERSITY

Application in Earth Science

The Department of Earth and Planetary Sciences, Harvard University, plans to make two appointments in areas dealing broadly with paleoceanology and surficial or near-surface processes. The appointments will ordinarily be made at the junior level, although in exceptional circumstances a senior appointment may be considered.

In addition to carrying out an active research program, the successful candidate will be expected to teach at both the undergraduate and graduate level. The appointments are expected to start on or before September 1, 1997. Applicants should send curriculum vitae, descriptions of research and teaching interests, and names of three references to: Dr. Rosemary Wahl, Chair, Department of Biological Sciences, St. Mary's University, One Camino Santa Maria, San Antonio, TX 78228. Application deadline: June 1, 1996.

THE RICHARD STOCKTON COLLEGE OF NEW JERSEY

Richard Stockton College's expanding, ACS certified chemistry program invites applicants with spark, insight, and commitment to excellence. The three-tenure-track ASSISTANT PROFESSORS, to join nine-person, ethnically diverse faculty, fall 1996. 1) Organic (interest in environmental and/or bioorganic preferred). 2) Environmental or biocatalytic (familiarity with environmental or biological applications of chromatography and instrumental analysis). 3) Biochemistry (focus on molecular biology and related research). The successful candidate is expected to have a Ph.D. in Chemistry. Stockton is state-supported, liberal arts, in the Pine Barrens, one hour from Philadelphia. All faculty teach introductory and laboratory courses, and/or possess a teaching and research education background and sponsor student research. Salary range: $33,737 to $38,799. Salary may be higher depending upon qualifications and experience, and increases in the appropriately and progressively. Review begins April 22, 1996. Send letter of application, three recommendations, and curriculum vitae to: Dr. Barbara Byrnes, Chair and Search Committee Chair, Richard Stockton College of New Jersey, AA29, Pomona, NJ 08240. Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. R604226.

ECOLOGIST/LIMNOLOGIST

FACULTY POSITION. The Department of Biology at Viterbo College, 815 South 9th Street, LaCrosse, WI 54601. Equal Opportunity/Affirmative Action Employer.
National Library of Medicine
National Institutes of Health

Director, Lister Hill National Center for Biomedical Communications (LHNCBC)

The National Library of Medicine, Bethesda, Maryland, is seeking an outstanding research scientist with extensive expertise in biomedical communications to direct the research programs of the Lister Hill National Center for Biomedical Communications. Salary range — $90,090 – $120,000.

The Director, LHNCBC, will have full responsibility for directing and coordinating research in the computer representation, storage, retrieval and dissemination of biomedical information as text, graphs, diagrams and images in support of biomedical research and the improvement of health care. Examples include the use of artificial intelligence, natural language processing, decision theory and the Unified Medical Language System to create internet access to textual and image databases; the computer representation of the anatomic structures of the human; and the facilitation of computer to computer communications.

Position requires: doctoral level education in one or more of the following: medicine, medical informatics, computer science and engineering; research productivity in the linguistic and cognitive aspects of medical informatics; managerial experience in directing a multidisciplinary research team; and peer recognition of outstanding national and international research accomplishments and scientific contributions.

For more information contact Rita Sweeney at (301) 496-4943. Please forward a current curriculum vitae and a complete bibliography, including a list of at least five of your most significant publications to:

Rita Sweeney
National Library of Medicine
Office of Personnel Management
Building 38, Room 2N05
8600 Rockville Pike
Bethesda, Maryland 20894

APPLICATIONS MUST BE POSTMARKED BY APRIL 26, 1996.

Selection for this position will be based solely on merit, without discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, sexual orientation, physical or mental handicap, age, or membership or non-membership in an employee organization. U.S. citizenship is required.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

Cell Therapeutics Inc. (CTI) is a privately held, Seattle-based pharmaceutical company developing a class of drugs that selectively regulate the metabolism of phosphatidic acid (PA), an intracellular pathway activated in cancer and immune disease. As employees are our most important asset, we have created an environment that fosters teamwork, achievement, recognition and responsibility. If you are looking for an exciting opportunity in a progressive atmosphere, consider the following:

Senior Scientist, Oncology
Responsible for the design and implementation of in vitro and in vivo efficacy screening for novel antineoplastic agents. Requires a Ph.D. in Cell Biology or related field with 3-5 years' pharmaceutical experience. Ref #JS396S

Senior Scientist, Immunology
Responsible for establishing, directing and performing activities in the evaluation of immunologic signaling targets in T and B lymphocytes. Requires a Ph.D. in Immunology and 2-3 years' cellular immunology laboratory experience. Ref #BL396S

Animal Lab Biology Supervisor
Responsible for managing the operations of internal laboratory animal research. Requires a B.S. in Biological Sciences and 3+ years' experience performing animal studies. AAALAS certification required. Ref #SL396S1

Research Scientist(s)
Responsible for the design, implementation, performance and reporting of internal animal studies. Requires a Ph.D./D.V.M./M.S. with 5 years' experience with emphasis in toxicology. Experience in a regulated environment (GLP) required. Ref #SL396S2

Chemistry Operations Lab Manager
Responsible for managing chemistry laboratory operations; including SOPs; instrument validation; sample tracking and data storage; planning, staffing and budgeting. Requires a B.S. in Chemistry or related field plus 3-5 years' industry experience in a regulated environment (GMP and/or GLP). Ref #SL396S3

Located in Metropolitan Seattle, CTI is in the heart of the technology corridor within one of the world's most spectacular natural settings.

Our competitive reward programs are tailored to encourage and recognize outstanding contributions and achievements. We will have additional opportunities throughout the year. Please call our Job Line at: (800) 656-2355, or see our job postings on the Internet on Bio Online at: http://www.bio.com

Qualified candidates are invited to send or FAX their CV, referencing the appropriate job number to: Human Resources, Cell Therapeutics, Inc., 201 Elliott Avenue West, Suite 400, Seattle, WA 98119. FAX: (206) 284-6206. We are an equal opportunity employer.
The Neuroscience and Aging Institute of Loyola University Chicago has a new opening for a Postdoctoral Fellowship position. Recent recipients of a Ph.D. and/or M.D. degree seeking further training in Neuroscience are encouraged to apply. Stipend includes a salary of $25,000 in the first year, $26,000 in the second year, plus $8,000 in additional funding for supplies and travel each year. Liberal benefits included.

Successful applicants will select a mentor from among the more than 70 members of the Neuroscience and Aging Institute and its Division for Research on Drugs of Abuse. These members include faculty from the Departments of Cell Biology, Neurobiology and Anatomy, Molecular and Cellular Biochemistry, Neurological Surgery, Neurology, Pharmacology, Physiology and Psychiatry, and also from the Parmly Hearing Institute and the Hines VA Hospital. A listing of Neuroscience faculty and their particular research interests is available upon request.

Areas of research focus include: neurodegenerative diseases; neurodevelopment; neuroendocrinology/neuroimmunology; neuroregeneration/neuroplasticity; neurotoxicity; neurotransmitter/neuropeptide receptor systems; and sensory neuroscience.

Candidates should forward a letter of interest, including future research interests, career goals, and curriculum vitae, and arrange for 3 letters of reference to be sent to:

Neuroscience and Aging Institute Fellowships Committee, c/o Paula Griffin-Arnold, Loyola University Medical Center, 2160 S. First Avenue, Maywood, Illinois 60153. (708) 216-6755. E-mail address: pgriffi@luc.edu

Information must be received and file complete by January 15, 1996.

Please visit our home page on the WWW at: http://www.meddean.luc.edu/lumen/DeptWebs/nsai/index.htm

Loyola University Chicago employs without regard to race, color, age, sex, national or ethnic origin, or religion, and is an equal opportunity employer. Qualified persons are not subject to discrimination on the basis of handicap.

**PROFESSOR AND CHAIR**

**Department of Biomathematical Sciences**

Mount Sinai School of Medicine of the City University of New York invites applications and nominations for the position of Chair of the Department of Biomathematical Sciences.

The nationally recognized candidate will assume responsibility for directing a basic science department providing special expertise in computational and other emerging biomedical areas important to biomedicine. The department is actively involved in graduate education and has an extensive research program.

Candidates must have preeminent academic credentials, demonstrated excellence in research and education, and have proven administrative and leadership skills.

Please forward your curriculum vitae and nominations to: Kurt Hirschhorn, M.D., Chairman, Biomathematical Sciences Search Committee, Box 1497, The Mount Sinai Medical Center, One Gustave L. Levy Place, New York, NY 10029-6574. Mount Sinai is an affirmative action/equal opportunity employer and encourages applications from women and minority candidates.

The Mount Sinai Medical Center

**CALIFORNIA INSTITUTE OF TECHNOLOGY**

**Faculty Position in Environmental Engineering Science**

The Environmental Engineering Science program at Caltech is renewing its search for a tenure-track faculty appointment in Environmental Engineering Science. EES is an interdisciplinary graduate program bringing together engineers and scientists working on novel approaches to environmental problems, primarily concerned with air and water. We are particularly interested in applicants in the areas of environmental microbiology and biochemistry and environmental transport processes and fluid mechanics. Any candidate must have a strong interest in environmental applications, research accomplishment in one or more of the relevant areas, evidence of ideas for a highly productive and innovative research program, and a strong commitment to teaching. Any initial assistant professor appointment is normally for four years and is contingent upon completion of Ph.D. Exceptionally well qualified applicants may also be considered at the associate or full professor level. Four years of relevant professional experience or a Ph.D. in engineering or science is required.

Candidates should send curriculum vitae and list of publications with refereed articles clearly marked, the names of at least three references, and a statement of research and teaching objectives to: Professor J.J. Morgan, EES Search Committee Chairman, Environmental Engineering Science, Keck Laboratories 138-78, California Institute of Technology, Pasadena CA 91125.

Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.
Chair in Orthopaedic Research and Director of Research  
The University of South Florida College of Medicine and the Shriners Hospital for Crippled Children, Tampa Unit, are seeking a senior scientist to fill the Berry-Shrine Chair in Orthopaedic Research. This individual will also serve as Director of Research at the Shriners Hospital. The individual sought must hold an M.D. or Ph.D., be qualified for the rank of professor in an appropriate academic department, and be capable of leading a program in musculoskeletal biology. He or she should have a distinguished record of research contributions in the field of molecular biology, molecular genetics, cell and developmental biology, biochemistry, or bioengineering. Preference will be given to individuals who have a history of sustained extramural funding and who are interested in both basic and clinically relevant research. Interested applicants should forward a current curriculum vitae to: Dr. Reginald R. Cooper, Chair, Search Committee for Shrine Chair/Research Director, c/o Department of Biochemistry and Molecular Biology, University of South Florida College of Medicine, MDC 7, Tampa, Florida 33612. Applications and nominations will be accepted until June 1, 1996.

USF is an Equal Opportunity/Affirmative Action/Equal Access Institution.

Director Biomedical Engineering and Instrumentation Program  
National Center for Research Resources  
National Institutes of Health  
The National Center for Research Resources (NCRR) is seeking applicants for the position of Director Biomedical Engineering and Instrumentation Program (BEIP), NCRR. This is a permanent full-time position, at the GS-15 level, with a salary of $73,486 to $95,531 per annum (includes 6.04% locality pay), located in Bethesda, MD. Physicians may be eligible for an annual Comparability Allowance of up to $20,000.

A recruitment bonus of up to 25 percent of base pay may be available to a non-Federal applicant selected for this position, subject to individual approval.

A relocation bonus of up to 25 percent of base pay may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval.

The Director for BEIP, NCRR, will direct, manage, and oversee the research and development efforts of engineers and scientists on staff who collaborate with the basic and clinical research investigators of the NIH, to advance critical technologies. Among these technologies are NMR imaging and spectroscopy, analytical electron microscopy, analytical ultracentrifugation, mass spectroscopy, image processing, biological materials, laser technology, physiological monitoring, and clinical chemistry to name a few. The Director, BEIP, provides leadership in planning, implementation and evaluation of the effectiveness and efficiency of the programs. Applicants for this position must have a Doctor of Medicine or Ph.D. in Biomedical Engineering or one of the health sciences (or equivalent combination of experience and training). Applicants may submit any of the following documents: 1) a resume/curriculum vitae and bibliography; 2) employment application (SF 171 or OF 612); 3) or any other written format which provides the required information. Applicants are encouraged to submit a narrative related to the mandatory qualification requirements. Send applications to Mr. Eugene McDougall, National Institutes of Health, National Research Resources (NCRR), 9000 Rockville Pike, Building 31, Room 3B38, MSC 2130, Bethesda, MD 20892. For application forms and a copy of the requirements contact Mr. McDougall at NCRR on (301) 496-1524. Job duties, qualifications required, etc. can be retrieved via FAX by calling (301) 594-2953 (local) or 1-800-728-JOBS (long distance); the FAX-ID# is 5818. Applicants must be U.S. citizens. Deadline for application is 05/06/96.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, people with disabilities, age, sexual orientation, or membership or non-membership in an employee organization.

The NIH is an Equal Opportunity Employer.

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OREGON HEALTH SCIENCES UNIVERSITY  
Director, Transgens Service Lab  
Oregon Health Sciences University invites applications for the position of DIRECTOR of a newly established Transgens Service Lab partially funded by an award from the Howard Hughes Medical Institute. Candidates must possess an M.D., Ph.D., D.V.M. or equivalent doctoral degree and have considerable experience in the generation of transgenic mice by both pronuclear injections and blastocyst injections/morulae aggregation of recombinant embryonic cells. The director will manage the lab and breeding colonies and provide transgenic mice and homologous recombination in ES cells on a fee-for-service basis to investigators throughout the University. The successful candidate may hold a primary academic appointment in the Department of Animal Care and a secondary appointment in a basic science department depending on qualifications and experience. The position is available immediately and the successful candidate should be prepared to assume responsibility by the summer of 1996. The closing date for applications is May 10, 1996. Please submit a letter of application, curriculum vitae with bibliography, and the names and addresses of three references to:

Transgenic Search Committee  
Dept. of Biochemistry & Molecular Biology, L224  
Oregon Health Sciences University  
3181 S.W. Sam Jackson Park Road  
Portland, OR 97201-3098  
OHSU is an Affirmative Action/Equal Opportunity Employer
Research Scientist I

Genetic Therapy, Inc., is a leader in the development of human therapy products for genetic and acquired diseases. Founded in 1986, GTI and its collaborators represent one of the largest groups of scientists dedicated to research and development in the field based in the Washington D.C. area. GTI is expanding its research activity in the area of in vivo adenoviral vector-mediated gene transfer to the lung. This program will complement existing activities in adenoviral vector development for treatment of cystic fibrosis and other lung diseases and will provide collaborative interaction with research groups working to develop gene therapies for genetic and acquired diseases.

Applicants should have a Ph.D. in a scientific discipline and experience in gene therapy or a related field. In addition, applicants should have extensive laboratory experience in working with marine or rat animal models including working skills in small animal surgery. Experience in working with models of administration and evaluation of experimental agents to the lung is highly desirable. Good communication skills are required and a strong publication record is desired.

GTI offers a stimulating and challenging research environment with an excellent salary and benefits package. Please specify position when applying. Fax or send resume to:

Genetic Therapy, Inc.
938 Clopper Road
Attn: 82-013-7
Gaithersburg, Maryland 20878
Fax: (301) 948-0503

Equal Opportunity Employer

Laboratory Supervisor

This position is responsible for the safe operations and management of modern research laboratories in Antarctica and supervision of associated support staff. The laboratory supports scientists from several disciplines, funded by the National Science Foundation, conducting basic and applied research in Antarctica. Laboratories to be operated and maintained safely may include: analytical chemistry, computer, general use, ice processing, lidar, microbiology, microscopy, molecular biology, radiosotope, rock processing, seawater aquaria, and seismic. Preseason planning of laboratory support for scientists and recruiting of personnel are conducted in Englewood, CO followed by deployment to Antarctica for up to six months (Sept-Feb) each year.

An advanced degree in one of the natural sciences, minimum of five years experience in the operation and management of a modern research laboratory, and supervision of a diverse laboratory staff are required. Experience working with the OSHA Laboratory Standard and Implementing Chemical Hygiene Plans is also required. Experience working in an academic research environment is highly desirable.

Proof of US citizenship is required. All applicants must be able to pass strict physical and dental exams. Salaries are comparable to Denver Metro salaries.

For consideration, please fax or mail resume with letter of introduction no later than April 30, 1996.

ANTARCTIC SUPPORT ASSOCIATES
ATTN: LAB/SK
61 Inverness Drive East, Suite 300
Englewood, CO 80112
FAX: (303) 790-9130
EOE

Sr. Medical Writer

Johnson & Johnson, with over $18 billion in annual sales, is the world's largest and most comprehensive manufacturer of health care products serving consumer, professional, diagnostic and pharmaceutical markets. We have an immediate opportunity in CENTRAL NEW JERSEY with Johnson & Johnson Consumer Products companies for a Senior Medical Writer with 3+ years experience in medical/pharmaceutical writing and either a BA in writing/science writing or a BS with heavy writing experience. Your background must demonstrate: the ability to interface effectively as an integral member of a therapeutic area team; knowledge of on-line literature searching; understanding of the scientific method and biostatistical analyses; compliance with regulatory guidelines; and WP skills.

Responsibilities include preparing investigational drug brochures, summarizing clinical trial results, and other summary documents for NDAs/product license applications/international registrations. Will also assist in preparing/editing manuscripts for publication, as well as protocols and other documents.

We offer a competitive salary and comprehensive benefits including medical/dental insurance, 401(k) plan and our LIVE FOR LIFE Wellness Program with on-site fitness center. Please forward a copy of your resume, including salary requirements, suitable for scanning into our database (i.e., clean/clear, no graphics, and preferably unfolded) to: Dept. 624, Johnson & Johnson Recruiting, P. O. Box 16597, New Brunswick, NJ 08906-6597.

We are an equal opportunity employer and support diversity in the workplace.

"Leadership Beyond Compliance"
RNA Virologist

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, is seeking an investigator for our Molecular Virology and Host Defense Department. This department works on projects which encompass basic and applied research in many aspects of virology, including viral replication, pathogenesis, host-virus interaction, and the discovery of novel anti-viral compounds as well as the immunology of infectious diseases including immunomodulators, hematoregulatory cytokines and stromal cell biology.

In conjunction with other scientists, the selected candidate will plan, implement and supervise research aimed at the discovery, evaluation and development of novel therapeutic anti-viral agents for Hepatitis C and related positive strand RNA viruses. The candidate will apply virological, molecular, and biochemical skills to identify viral molecular targets, develop screens for anti-viral agents, assist in the development and meeting of animal disease models of viral infection, explore mechanisms of anti-viral drug action and help to select lead compounds as a member of a multi-discipline team. The candidate will have the opportunity to present results of this work at scientific meetings and by publication.

Qualified candidates will have a Ph.D in virology, a minimum of 2 years' postdoctoral experience in positive-sense RNA viruses and an excellent record of scientific achievement as evidenced from publications, patents and presentations. Excellent communication skills and the ability to work effectively with individuals of varied backgrounds and disciplines are required, with supervisory experience desirable.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. For confidential consideration, please forward resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H4-0058, P.O. Box 2846, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.

SB SmithKline Beecham Pharmaceuticals

Challenging the natural limits.

As the established world leader in gene discovery, HGS has utilized automation and high throughput DNA sequencing to establish the largest database of human and microbial genes and to analyze patterns of gene expression under defined conditions of cell activation and development. From this rich source of information, our goal is to identify novel protein pharmaceuticals with therapeutic potential for unmet medical needs.

BIOINFORMATICS SCIENTISTS

Our Bioinformatics Department is seeking highly motivated and creative scientists to design and develop sequence analysis tools for gene discovery. Successful candidates will have a Ph.D. in Computational Biology, Biophysics, Bioinformatics or related discipline and 2 or more years of postdoctoral experience. Candidates must have a thorough knowledge of sequence similarity software and motif analysis. Proficiency using large sequence database and programming expertise on UNIX machines is required. Experience in molecular modeling, protein folding and data visualization techniques is highly desirable.

HGS offers an excellent salary and benefits package which includes medical/dental coverage and 401(k). Please send your curriculum vitae to Human Resource Department, Human Genome Sciences, Inc., Attn: Position BI-03, 9410 Key West Avenue, Rockville, MD 20850-3331. An Equal Opportunity Employer.

Vical, Inc., a leader in the development of gene-based pharmaceutical products, is expanding its Gene Delivery program. Opportunities exist for highly motivated scientists to contribute original research toward the design and development of advanced gene delivery systems.

Research Scientists -

Successful candidates will have experience in Drug Delivery Research and an understanding of the factors that influence bioavailability of drugs in cultured cells and in vivo. Experience with cell culture and the development and implementation of bioanalytical assays is essential. A working knowledge of the field of liposome research, use of biofunctional cross-linker technology, and knowledge of the analytical characterization of liposomes are desirable. Ph.D. and two years' experience and equivalent relevant experience are required.

Research Associate -

Successful candidate should have experience with cell culture and small animal handling, development and implementation of analytical and biochemical assays. Minimum requirements are a B.S./M.S. and the ability to carry out complex experimental protocols and to conduct experiments with analytical endpoints. Strong organizational and record keeping skills required.

Please send your resume to Vical Incorporated, Human Resources, 9373 Towne Centre Drive, Suite 100, San Diego, CA 92121 or fax to (619) 453-5885. EOE M/F/D/V.

Human Genome Sciences, Inc.

Dedicated To Discovery For Health

St. Jude Children's Research Hospital

Postdoctoral Fellowships

St. Jude Children's Research Hospital, a premier research center for children's catastrophic diseases and biomedical research, offers fellowships in many different specialties.

Fellowships are open to junior investigators, M.D. or Ph.D degree, who would like to gain further experience in one of the laboratory or clinical research specialties offered at St. Jude. Stipends are highly competitive.

Send inquiries to:
Academic Programs Office
St. Jude Children's Research Hospital
P.O. Box 318
Memphis, Tennessee 38101-0318

An Affirmative Action/Equal Opportunity Employer
**EXPLORATORY TECHNOLOGY**

**Scientist/Sr. Scientist Biochemistry/Biophysics**

Join a multi-disciplinary team focused on integrating state-of-the-art analytical technologies into the drug discovery process. Working in close collaboration with the Automation, Drug Discovery and Bioinformatics Teams at The R. W. Johnson Pharmaceutical Research Institute, our goal is the development of systems which provide direct insights into the processes of signal transduction in an HTS (high throughput screening) setting.

The successful candidate will bring skills in bioanalytical methods, protein biochemistry and the dynamics of protein structure to the team. We will look to you to drive a collaborative effort to adapt and develop advanced biophysical methodologies, with the goal of integrating important pharmaceutical target classes into innovative and efficient "generic" screening systems.

Qualifications include a Ph.D. in Biochemistry or related discipline, at least 2 years postdoctoral experience and a record of publication demonstrating your accomplishments. Good communications skills are required, as each team member will be responsible for maintaining collaborations with other Scientists in the Johnson & Johnson technology community as well as with our outside academic and commercial partners. In addition, experience in molecular biology is a strong plus.

We offer an excellent salary, comprehensive benefits and a campus-like facility in central New Jersey, midway between New York City and Philadelphia. Please forward a copy of your resume suitable for scanning into our database to: Dept. 617, Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, NJ 08906-6597.

We are an equal opportunity employer and support diversity in the workplace.

THE R.W. JOHNSON PHARMACEUTICAL RESEARCH INSTITUTE
a Johnson & Johnson company

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**POST-DOCTORAL FELLOW SURGERY BRANCH, NCI**

The Surgery Branch, National Cancer Institute, National Institutes of Health has postdoctoral positions available immediately to study tumor proteins and peptides recognized by CD4+ T cells. Applicants for one position must have a strong background in protein purification and molecular biology and for the second position in cellular immunology. Less than five years postdoctoral experience required.

Selections for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sex orientation, or membership or non-membership in an employee organization. The NIH is an Equal Opportunity/Affirmative Action Employer.

Send cover letter, CV, and statement of research interests to:

DR. SUZANNE L. TOPALIAN
SURGERY BRANCH
NATIONAL CANCER INSTITUTE, NIH
10/2847, BETHESDA, MD 20892-1502
PHONE: (301) 496-4269
FAX: (301) 402-0922

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Applied Biosystems, a leading Bay Area supplier of systems and tools for biotechnology research, is seeking a Molecular Biologist for a Chemical Manufacturing position in its Consumables Development and Manufacturing Department (CDM).

**MOLECULAR BIOLOGIST**

The Molecular Biologist will be responsible for the analysis and release of DNA sequencing and DNA fragment analysis formulations using automated DNA sequencing techniques. The position will include participation on new product teams, development and validation of new QC methods, process improvement on existing products and providing technical input to R&D, Marketing and other CDM departments. Requirements include knowledge and proven skills in basic molecular biology techniques, good communication skills (both written and oral) and a desire to work in an interdisciplinary team environment. Automated DNA sequencing experience is highly desirable. Educational requirements include a BS in Molecular Biology or related discipline with at least 2 years of relevant experience.

We offer a competitive salary and generous benefits package. Please send your resume to: Applied Biosystems Division of Perkin Elmer, Attn: Human Resources, Ref. #SC9959, P.O. Box 61765, Sunnyvale, CA 94088. We are an equal opportunity employer.

For more information on us and all our job opportunities, see our home page on the WWW at http://www.perkin-elonger.com/abd/

PERKIN ELMER
Applied Biosystems Division

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The ONR Personnel Optimization and Biomolecular Science and Technology Department (covering the Biological, Biomedical, Cognitive and Neural Science and Technology Divisions) announces a change in proposal due dates. Investigators who seek funding for a new start in fiscal year 1997 (1 October 1996 to 30 September 1997) or who wish to renew proposals for grants ending before 30 September 1997 are encouraged to submit proposals to ONR no later than 15 July 1996. For more specific information about our programs you are encouraged to consult our World Wide Web site: www.onr.navy.mil.
As the pioneer and leader in carbohydrate-based biopharmaceutical product development, AlphaBeta Technology’s R&D staff faces some of the most challenging questions in the industry. With our lead product, BETAFACTOR, now in Phase III clinical trials, we’re developing effective solutions for the prevention and treatment of infection.

To support the commercialization of our new drug and ongoing research efforts, we are establishing Process Science Groups within our Process Development Department. We offer experienced, hands-on scientists the opportunity to develop and lead the two new Process Science Groups below.

**Process Biochemistry Group**

As a lead Scientist of the group, your responsibilities will include development of robust and scalable process biochemistry and chromatography purification steps for the recovery of soluble carbohydrate-based products, support of purification manufacturing and research activities including conformation purification, enzymes for B-glucon derivatezation, hydrolysis, and characterization.

This position requires an experienced professional with a Ph.D. in Chemistry, Biochemistry or a related field; 5+ years’ industrial experience with a focus on process biochemistry and purification development of GMP processes for the production of biopharmaceuticals; research training in biopolymer purification (preferably with experience in carbohydrates); demonstrated working knowledge of GMPs and their impact on process design and overall process architecture; expertise in analytical techniques (chromatography, gel electrophoresis, HPLC, IEF, spectroscopy, etc.) and technical supervisory/management experience.

**Bioprocess Group**

The lead Scientist of this group will be responsible for the development and optimization of fermentation and primary recovery processes in the production of carbohydrate-based products. Related responsibilities will include: development/selection of new yeast, microbial or fungal strains for manufacturing; development of fermentation media formulations; kinetic analyses; identification of critical control parameters; and supporting company-wide microbiology efforts as needed.

Qualified candidates will have a Ph.D. in Microbiology or Biochemical Engineering or related discipline in fermentation process development with extensive experience in industrial microbiology or fermentation research in the pharmaceutical/biotech industry. Also required: extensive experience with yeast, fungal and bacterial cell cultures; working knowledge of primary and recovery steps and downstream purification as it relates to fermentation performance and optimization of product formation and minimization of contaminant profile; strong background in validation principles; and previous technical supervisory/management experience.

Both of the above positions will involve extensive interface with our Research, Drug Discovery, Bioprocess Engineering and Clinical Manufacturing groups and will assist chemical engineers in scale-up to manufacturing.

**Scientist - Hematology**

In this position, you will establish and direct the research effort investigating the hematopoietic effects of novel carbohydrate immunomodulators. Requirements include a Ph.D. and postdoctoral experience with a broad-based background in cell biology and hematopoiesis; and expertise in stem/progenitor cell separation/isolation, cell receptor expression and signal transduction.

Alpha-Beta offers competitive salaries and a strong benefits package that includes a 401(k) plan, tuition reimbursement and 3 weeks' vacation your first year. Please reference position of interest by title and send your resume in confidence to: AlphaBeta Technology, Human Resources Department, Code: SM, One Innovation Drive, Worcester, MA 01605. Alpha-Beta is an equal opportunity employer.

**MOLECULAR IMMUNOLOGY Postdoctoral Scientist**

SmithKline Beecham, a world leader in pharmaceutical research, has an immediate opening for a Postdoctoral Scientist to join our multidisciplinary research group in the area of molecular immunology.

The selected individual will conduct research in the area of cytokines and stress signal transduction, including the isolation of new kinases and the characterization of key regulatory interactions in signalling cascades (see, Nature 372:738 [1994]). Expectations would also include significant interaction with other staff in discussion and interpretation of results in departmental seminars and external meetings and publications.

The successful candidate will have a PhD in Molecular Biology, Biochemistry or closely related discipline, along with practical experience in recombinant DNA technology, a background in cytokines or signal transduction, and a strong record of scientific publication. Use of radioactive reagents will be necessary.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits relocation package. For confidential consideration, please forward resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H-0112, PO Box 2645, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.
POSTDOCTORAL FELLOWSHIPS

Postdoctoral Fellowships funded by a training grant from NINDS are available to support research training at SUNY STONY BROOK in Molecular, Cellular, Systems and Behavioral Neuroscience. Applicants must be U.S. citizens or permanent residents. Women and minorities are especially encouraged to apply. Competitive salary based upon established NIH guidelines.

For further information concerning opportunities, contact faculty members listed below or the Program Director, Dr. Lorne Mendell, Department of Neurobiology & Behavior, State University of New York, Stony Brook, NY 11794-5230, Tel. 516-632-8616, Fax 516-632-6661. Detailed information on Neurobiology at Website http://life.bio.sunysb.edu/. Affirmative Action/EEO employer.

Paul Adams 
Peter Brink 
Paul Brehm 
John Cabot 
Albert Carlson 
William Collins 
James Davis 
Craig Evinger 
Marian Evinger 
Joseph Fetcho 
Michael Frohman 

James Gnadt 
Simon Halegoua 
Robert Hitzemann 
Maurice Kerman 
Mary Krizter 
Edmund LaGamma 
Joel Levine 
Gail Mandel 
Gary Matthews 
David McKinnon 
Stuart McLaughlin 

SUSAN McLaughlin 
Lorne Mendell 
Larry Morin 
Peter Rapp 
Nisson Schechter 
JAKOB Schmidt 
Murray Sherman 
James Trimmer 
Pat Whitaker 
Benjamin Walcott 
Stephen Yazulla

Research Entomologist

FMC Corporation, a leader in the Agricultural Chemical Industry, has a variety of positions available in our state-of-the-art research facility in Princeton, New Jersey. FMC has an enthusiastic, diverse group of scientists leading the growth initiatives of our Agricultural Products Group.

We have an immediate opening for a Research Entomologist in our Discovery Research team. This position will coordinate field testing programs which define the market opportunity for experimental insecticide molecules. All aspects of coordination will be required, including program design, management of contract research programs, sample shipment, data summary, and production of written technical reports. A background in the use of statistical procedures and their application to experimental design and data analysis for field trials with agricultural chemicals is preferred.

FMC is looking for a bright, well organized, problem solving individual with a Ph.D. in Entomology and experience in economic entomology - especially field evaluation of insecticides. Industrial experience is considered a strong plus. Effective communication and interpersonal skills are expected, along with the ability to do some travel, including international travel.

FMC Agricultural Group is a growing organization that offers employees a challenging work environment along with competitive compensation and benefits. Interested individuals should send a cover letter and resume, including salary history, to: Employment Coordinator - Dept. 96-10, FMC Corporation, Box 8, Princeton, NJ 08543. All resumes will be handled confidentially. FMC is an Equal Opportunity Employer.

THIRD WAVE TECHNOLOGIES, INC.

THIRD WAVE TECHNOLOGIES, INC.
Associate Director, Technology Development & Assay Development Scientists

Third Wave Technologies, Inc., a biotechnology company developing nucleic acid diagnostic products, is recruiting an Associate Director of Technology Development as well as assay development scientists. Applicants for Associate Director should have a Ph.D. in molecular biology, medical microbiology, biochemistry or a related field. Applicants should have 3 or more years of postdoctoral experience as well as at least 3-5 years of experience developing DNA probe assays for microbial pathogens in an industrial setting. Scientists should have 2 or more years of postdoctoral experience related to development of nucleic acid detection assays for pathogenic microorganisms. Candidates should have demonstrated knowledge of all mechanics of nucleic acid hybridization and amplification technologies. The Associate Director will assume leadership of a group developing novel nucleic acid detection and amplification technologies for the detection and quantitation of microbial and viral pathogens. Applicants for Associate Director should have demonstrated ability to supervise and successfully lead a group of scientists. Formal project management skills are an asset but are not required. Third Wave Technologies, Inc. offers an attractive benefit and relocation package including stock options. Qualified candidates should send their resume to Human Resources Department, Third Wave Technologies, Inc., 2800 S. Fish Hatchery Road, Madison, WI 53711.
MINORITY RESEARCH OPPORTUNITIES
DEPARTMENT OF DERMATOLOGY
HARVARD MEDICAL SCHOOL

The Department of Dermatology of Harvard Medical School is seeking to increase minority participation in its research programs. The National Institutes of Health can provide current research grantees with supplemental grants for qualified minority applicants. A number of researchers in the Department of Dermatology have indicated an interest in adding minority postdoctoral researchers to their NIH-funded programs, and will work with applicants in preparing an application. Currently opportunities exist in the following broad areas:

- Cutaneous Biology
- Cell Cycle/Keratinocytes
- Molecular Pharmacology
- Cutaneous Photobiology
- Photochemistry
- Photodynamic Therapy
- Extracellular Matrix in Morphogenesis

Interested candidates should send a letter of inquiry indicating your area of interest and a C.V. to: Ms. Diane Kovacev, Department of Dermatology, Warren 501, Massachusetts General Hospital, 32 Fruit Street, Boston, MA 02114.

The Department of Dermatology, Harvard Medical School and its affiliated hospitals are equal opportunity employers.

Job Opportunities in The Chemical Science and Technology Division

TECHNICAL STAFF MEMBER to provide professional level support of thermal ionization mass spectrometry. Primary responsibilities will be to over-see the daily operations of the Clean Chemistry and Mass Spectrometry Facility. Insure that current commitments for activide element determinations are met, and to actively develop new areas of research and funding. Job #961430-CAST96033.

TECHNICIAN to perform a wide variety of assignments relating to the ultra-sensitive analysis of activide elements. Primary responsibilities will include the operation of NBS 12-90 and VG 54-30 thermal ionization mass spectrometers. Job #961431-CAST96034

To formally apply for the above positions, interested candidates should forward a resume indicating Job # to: Human Resources Division, MS P296, Los Alamos National Laboratory, Los Alamos, NM 87545.

POSTDOCTORAL POSITIONS in the area of uranium-series geochemistry and geochronology are available. Requirements are experience with isotopes geochemistry at either high or low temperature, experience in clean room chemical separations at very low levels, and the ability to work well in a team.

For consideration: submit TWO COPIES of a resume and publication listing to: Postdoctoral Program, Job #PD96025, MS P290, Los Alamos National Laboratory, Los Alamos, NM 87545.

For more information: http://www.lanl.gov/htn/jobs/external/or/postdoc/. Affirmative Action/Equal Opportunity Employer. Individuals with disabilities needing reasonable accommodation should call (505) 857-8622. A Teletype Device for the Deaf (TDD) is available by calling (505) 664 5357. Los Alamos National Laboratory is operated by the University of California for the U.S. Department of Energy.

Los Alamos
NATIONAL LABORATORY

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The CHILDREN'S Mercy Hospital
University of Missouri
Kansas City, MO

POSTDOCTORAL RESEARCH FELLOWSHIP

A two year Postdoctoral Fellowship in basic medical science is available in July, 1996 for a Ph.D. or M.D. The following research training opportunities are available:

**Molecular Oncology - Paul G. Rothenberg, Ph.D.**

We are exploring alterations in gene expression during the butyrate induced differentiation of colon carcinoma cell lines. Currently under study are the c-myc family of DNA binding proteins and the cyclin dependent kinase inhibitors. Reference: J Biol Chem 268:20486, 1993

**Molecular Biology and Genetics - Robert White, Ph.D.**

The focus of research in this laboratory is on the role of defective cytokines proteins in hereditary disease using the mouse as our model organism. We are currently studying 1) the function of retinal dystrophin, 2) the molecular basis of a group of platelet diseases, and 3) the genetic defect in a hereditary anemia mutation. Reference: Nature Genetics, 81, 1992

**Cancer Pharmacology - Al Leyva, Ph.D.**

The focus of research in this laboratory is improving cancer chemotherapy. We are currently studying the cellular and molecular pharmacology of novel natural product compounds using both in vitro and in vivo solid tumor models. Reference: Cancer Letters 95:55, 1995

**Molecular Endocrinology - Jill Jacobson, M.D.**

Our research is on the role of a hypothalamic hormone, gonadotropin-releasing hormone (GnRH), in immunity and autoimmunity. We have shown that GnRH exacerbates murine lupus independently of gonadal steroids. One ongoing project utilizes a GnRH-deficient mutant mouse to study the direct and indirect actions of GnRH on the immune system. Reference: Endocrinology 134:3516, 1994

Applicants should have a strong background in molecular and cellular biology techniques. Salary and laboratory supply budgets commensurate with NIH standards. More information can be found at: WWW.CMH.EDU/Research/Postdoc.HTM

To apply send your curriculum vitae and a one page description of professional/research goals along with the names, addresses, and telephone numbers of three references to:

Donald W. Thibeault, M.D. phone: 816-234-3596
Children's Mercy Hospital fax: 816-234-3590
2401 Gillham Road email: dthibeault@cmh.edu
Kansas City, MO 64108 WWW.CMH.EDU

The Children's Mercy Hospital is an Equal Opportunity/Affirmative Action Employer.
Wanted: Committed, ambitious scientist. Must be a team player with a vision for the future. M.D./Ph.D., Ph.D., M.S. or B.S. degree necessary.

Does this describe you?
If it does, then plan to attend the bioSCIENCE Career Fairs sponsored by SCIENCE. The bioSCIENCE Career Fairs offer the perfect opportunity for scientific professionals to meet in person with representatives from top biotechnology and pharmaceutical companies, universities, governmental agencies and institutions.

EDITORIAL SEMINAR: On the first day of the event from 11:00 - 11:30, a SCIENCE editor will conduct a seminar on "How to get a research paper published in SCIENCE."

1996 bioSCIENCE Career Fairs
May 3: 11am - 4pm; May 3 Seminar: 11 - 11:30am.
May 4: 12 noon - 4pm.

Just added! Careers in Biomedical Research: Join leaders from both industry and academia for a panel discussion sponsored by the Biomedical Association of Stanford Students on May 3, 12 - 1:30 p.m. at the Fairchild Auditorium. The panel discussion focuses on careers in biomedical research.

La Jolla, CA at The Scripps Research Institute, October 4-5.

For more information please call (202) 326-7018.

bioSCIENCE Career Fair Information On-line: http://www.aaas.org
(Choose SCIENCE Classified Advertising from the menu)
The Genentech Postdoctoral Program consists of more than 50 Researchers and is a vibrant and intensive environment for advanced scientific training. Postdoctoral Researchers conduct basic research in the areas of our scientific interest, publish in scientific journals, attend and present work. All candidates should have a PhD and/or MD degree with a strong background in the appropriate field.

Cardiovascular Research
Two positions are available. One position will be responsible for defining the role of plasma carboxypeptidase in regulating fibrinolysis. A general knowledge of the molecular basis of fibrinolysis and blood coagulation is highly desirable and a protein chemistry, cell and molecular biology background required. See J. Clin. Invest. 96, 2534-2538 (1995); Biochemistry 34, 5811-5816 (1995); J. Biol. Chem. 266, 21833-21838. Manager: Dr. Dan Eaton. Reference: PDDE

The other position will focus on cardiac hypertrophy and heart failure using novel cloning approaches, combined with mouse gene knockout and transgenic technology. Manager: Dr. David Lowe. Reference: PDDL.

Pharmacokinetics & Metabolism
A position is available to study the mechanisms of uptake and intracellular transport of growth factors, focusing on understanding the specific function(s) that ligands target to the nucleus play(s) in the overall biological response of the cell. Manager: Dr. Gilbert Keller. Reference: PDGK

Endocrine Research

Bioanalytical Development

Antibody Engineering

Immunology

Cell Biology

Molecular Biology
Positions are available to identify novel cell surface receptors and their ligands and to study receptor biology and cell signaling in variety of systems, including growth hormone, flt4, and gp130 receptor systems. See PNAS 92, 1142 (1995); JBC 270, 10915 (1995); JBC 270:7021 (1995); and Science 253, 1278 (1991). Manager: Dr. William Wood. Reference: PDWW

Genentech offers an excellent salary and benefits package which includes free health club membership and fully paid medical, dental and vision coverage. Please send your resume to Genentech, Inc., Human Resources, Attn: Reference XXXX (see code in above job descriptions), 460 Pt. San Bruno Blvd., South San Francisco, CA 94080. Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

Genentech, Inc.
STA FELLOWSHIP PROGRAM

Postdoctoral Fellowships in Japanese National Laboratories

Introduction
The Science and Technology Agency (STA), an administrative organ of the Government of Japan, established the STA Fellowship Program in 1988 in order to offer opportunities for promising young foreign researchers in the fields of science and technology to conduct research at Japan’s national laboratories and public research corporations (excluding universities and university-affiliated institutes).

The Program is also a response to calls from the international community of science and technology for greater international cooperation through the exchange of promising researchers.

Since Oct. 1, 1989, the Program has been managed by the Research Development Corporation of Japan (JRDC), a statutory organization under the supervision of STA, in cooperation with the Japan International Science and Technology Exchange Center (JISTEC). JRDC also has the strong support and cooperation of the Responsible Organizations listed in Table 1.

Fellowship Qualifications
The fellowships are open to PhD holders of under 35 in principle, (N.B.: Any age is acceptable for Short-Term Fellowships), from universities, research councils, government research laboratories and industry. Any science or engineering discipline will be considered except military R & D.

Applicants should be of sufficient good health to pursue research activities in Japan.

Have sufficient language ability to pursue research activities in Japan, Japanese language ability is preferable, but English is sufficient in most cases. With the agreement of the host research institute, other languages may suffice.

Tenure and Field of Research
The tenure will be from 6 months to 2 years (Long-Term Fellowship), or 1-3 months (Short-Term Fellowship), to be decided upon through negotiation between the candidate and the host institute. The field of research will also be decided upon through negotiation between the candidate and the host institute, the results of research activities produced during the tenure will be subject to the regulations of the host institute.

Research field include: Mathematics; Physics; Geology; Electricity; Electrons; Information Engineering; Mechanics; Engineering Works; Agriculture; Erosion Control; Landscaping; Chemistry; Metals; Resources Engineering; Medical Science; Pharmaceuticals; Agricultural Technology; Farming; Forestry; Fisheries; others in the Natural Science.

FELLOWSHIP AWARDS
Fellowships include round-trip air tickets (economy class; not available for dependents) and the following allowances:
1) Living allowance: 270,000 a month
2) Family allowance: 50,000 a month if Fellows are accompanied by one or more dependents during their tenure.
3) Housing: Apartments will normally be provided to awardees. The apartment floor area is 40m² for awardees unaccompanied by their family and 60m² for awardees to stay with their family in other than metropolitan areas such as Tokyo. If an awardee prefers to use a larger apartment because of the family size or otherwise 106,000 maximum per month may be paid as housing allowance; any shortfall is to be borne by the awardee.
4) An initial international settling-in allowance: 200,000 (This amount is less in case of short stays.)
5) An annual allowance of up to 115,000 for travel within Japan related to research activities.
6) Medical insurance (N.B. not available for dependents)

Assistance for Fellows
If they wish, Fellows may take advantage of the following assistance:
1) Free Japanese language courses for Fellows whose host research institutes are in Tsukuba area. Fellows whose institutes are located elsewhere are entitled to reimbursement of reasonable amounts for language tuition at a private school. (N.B. not available for dependents);
2) Since most apartments in Japan are unfurnished, basic furniture and electric appliances will be provided free of charge to Fellows;
3) Counseling on problems relating to such aspects of daily life as children's schooling, medical care and shopping, is available for Fellows living in Tsukuba area.

APPLICATION PROCEDURE FOR STA FELLOWSHIP (Fig 1)
Applicants possessing the nationality or citizenship or permanent resident status of a country listed in Table 1 should:
1) Contact the Responsible Organization in their country to obtain an application form and information about the host research institutes;
2) Communicate with host research institutes of interest to ascertain their suitability for the applicant’s area of specialization;
3) After agreeing with the prospective host institute on the subject of research, the length of tenure and starting date for the Fellowship, the applicant should obtain from the institute a formal letter of acceptance expressing its willingness to serve as a host;
4) Submit the completed application form and the letter of acceptance to the Responsible Organization concerned. The Responsible Organization will then screen applicants, and submit its recommendations for Fellowship candidates to JRDC through JISTEC, accompanied by a complete dossier on the candidates.
5) JRDC will then conduct a further screening and notify successful applicants by sending a Letter of Award through JISTEC. The Responsible Organization and the host research institute concerned will also be informed in this respect.
Further information regarding the STA Fellowship and host institute is available from the responsible organizations, JISTEC and JRDC. (See below)

Japan International Science and Technology Center (JISTEC)
20-5, Takezono, 2-chome, Tsukuba City, Ibaraki Pref. 305 Japan
Tel: 81-298-53-8250 Fax: 81-298-53-8260

Research Development Corporation of Japan (JRDC)
Kawaguchi Center Building 1-8, Hon-cho 4-chome, Kawaguchi-city, Saitama Pref. 332, Japan
Tel: 81-48-228-5634 Fax: 81-48-228-5652

Table 1 RESPONSIBLE ORGANIZATIONS

<table>
<thead>
<tr>
<th>Country</th>
<th>Contact</th>
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<tr>
<td>AUSTRALIA</td>
<td>THE AUSTRALIAN ACADEMY OF SCIENCE</td>
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<tr>
<td></td>
<td>Ms. Bonnie Bauld</td>
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<tr>
<td></td>
<td>International Exchange Officer</td>
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<td>GPO Box 753, Canberra ACT 2601</td>
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<td></td>
<td>Tel: 61-6-247-3966 Fax: 61-6-257-4620</td>
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<tr>
<td>AUSTRIA</td>
<td>FEDERAL MINISTRY FOR SCIENCE AND RESEARCH</td>
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<td></td>
<td>Ms. Susanna Peterka</td>
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<td></td>
<td>Administrative Officer, International Affairs</td>
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<td></td>
<td>Minortorenplatz 5, A 1014 Vienna</td>
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<td></td>
<td>Tel: 43-222-531-20-6794 Fax: 43-222-531-20-205</td>
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<tr>
<td>CANADA</td>
<td>NATURAL SCIENCE AND ENGINEERING RESEARCH COUNCIL</td>
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<td></td>
<td>Ms. Patricia Houston</td>
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<td>Program Officer, International Programs</td>
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<td>Constitution Square, Tower II</td>
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<td></td>
<td>350 Albert Street, Ottawa, Ontario K1A 1H5</td>
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<td></td>
<td>Tel: 1-1613-947-0190 Fax: 1-613-992-5337</td>
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<tr>
<td>GERMANY</td>
<td>ALEXANDER VON HUMBOLDT-STIFTUNG</td>
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<td>Dr. Michal Meier</td>
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<td>Department Sponsorship Abroad</td>
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<td>Jean-Paul-Str. 12, D-53173 Bonn</td>
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<td>Tel: 49-228-833-101 Fax: 49-228-833-199</td>
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<td>FINLAND</td>
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<td>Ms. Kajja Siltari</td>
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<td>Exchange Program Secretary</td>
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<td>P.O. Box 57, SF-0051 Helsinki</td>
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<td></td>
<td>Tel: 358-0-7748-316 Fax: 358-0-7748-379</td>
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<td>FRANCE</td>
<td>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE</td>
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<td>Ms. Flora Gheno</td>
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<td>Mission of International Relations</td>
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<td>3-5 rue Michel-Ange, 75781 Paris Cedex 16</td>
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<td>Tel: 33-1-44-96-49-91 Fax: 33-1-44-96-49-10</td>
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<td>ITALY</td>
<td>MINISTERO DELL'UNIVERSITA E DELLA RICERCA SCIENTIFICA E TECNOLOGICA</td>
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<td>Dr. Antonio Carrisa</td>
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<td>Department for International Relations-UFFICIO III</td>
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<td>Piazzale J.F. Kennedy 20-00144 Roma</td>
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<td>NETHERLANDS</td>
<td>STICHTING VOOR DE TECHNISCHE WETENSCHAPPEN (STW)</td>
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<td>Dr. C. A. M. Mommers</td>
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<td>Postbus 3021, 3502 GA Utrecht</td>
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<td>Van Vollenhovenlaan 661, Utrecht</td>
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<td>Tel: 31-30-923275 Fax: 31-30-961536</td>
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<td>NEW ZEALAND</td>
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<td>Ms. Lisa Goodman</td>
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<td>International Science Officer</td>
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<td>P.O. Box 5336, Wellington</td>
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<td>Tel: 64-4-472-6400 Fax: 64-4-471-1284</td>
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<td>NORWAY</td>
<td>THE RESEARCH COUNCIL OF NORWAY</td>
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<td>Ms. Else Boon</td>
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<td>Advisor</td>
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<td>P.O. Box 2700 ST. Hanshaugen 0131 Oslo</td>
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<td>Ms. Leena Holappa</td>
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<td>Administrative Program Officer</td>
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<td>Liljeholmsvägen 32, S-117 86, Stockholm</td>
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<td>Tel: 46-8-681-9100 Fax: 46-8-681-9625</td>
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<td>SWITZERLAND</td>
<td>SWISS NATIONAL SCIENCE FOUNDATION</td>
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<td>Dr. Benno G. Frey</td>
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<td>Head of the Fellowship Section</td>
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<td>Wildhainweg 20, CH-3012, Bern</td>
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<td>Tel: 41-31-27-22-22 Fax: 41-31-23-30-09</td>
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<td>UNITED KINGDOM</td>
<td>THE ROYAL SOCIETY</td>
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<td>Ms. Vida Cody</td>
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<td>Head of Japan Exchanges</td>
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<td>6 Carlton House Terrace, London SW1Y 5AG</td>
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<td>Tel: 44-71-839-5561 Fax: 44-71-930-2170</td>
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<td>UNITED STATES</td>
<td>NATIONAL SCIENCE FOUNDATION</td>
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<td>Japanese Programs, Room 935</td>
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<td>Division of International Programs</td>
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<td>4201 Wilson Blvd. Arlington, VA 22230</td>
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<td>Tel: 1-703-306-1701 Fax: 1-703-306-0476 or 0477</td>
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<td>NATIONAL INSTITUTES OF HEALTH</td>
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<td>Dr. David A. Wolff</td>
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<td>Chief, International Research Awards Branch</td>
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<td>Fogarty International Center</td>
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<td>Bldg. 31, Rm. B2C39 Bethesda, Maryland 20892</td>
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<td>Tel: 1-301-496-1653 Fax: 1-301-402-0779</td>
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<td>EUROPEAN UNION</td>
<td>EUROPEAN COMMISSION</td>
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<td>Mr. Mario Merla</td>
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<td>Directorate-General for Science, Research and Development</td>
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<td>200 Rue de la Loi, 1049 Brussels, Belgium</td>
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<td>Tel: 32-2-295-39-90 Fax: 32-2-296-33-08</td>
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BIOLOGY POSITIONS
St. Olaf College invites applications for two anticipated one-year, with possibility of renewal, ASSISTANT PROFESSOR appointments beginning September 1, 1996. Teaching will include introductory cell biology and genetics and microbiology for one position and organismic biology and invertebrate zoology for the second position. Qualifications for the positions include a Ph.D. in cell biology with experience and ability in teaching. Send curriculum vitae, undergraduate and graduate transcripts, statements of teaching and research interests, and three letters of recommendation to: Dr. Kathleen Shea, Chair, Department of Biology, St. Olaf College, Northfield, MN 55057 by April 19, 1996. St. Olaf College is a coeducational liberal arts college of the church in the Reformed tradition (ELCA). St. Olaf is an Equal Opportunity Employer.

EVALUATORY BIOLOGY AND IMMUNOLOGY
Search reopened: Applications are invited for tenure-track ASSISTANT PROFESSOR position in Evaluatory Biology and Immunology. The Division of Life Sciences offers the Ph.D. with an emphasis in neurobiology. Requirements include a doctoral degree in the appropriate discipline and postdoctoral experience. Candidates must have demonstrated research accomplishments and a strong commitment to undergraduate and graduate teaching. Candidates who have research interests in neurobiology or immunology are preferred. Send curriculum vitae, a letter describing research interests, selected publications, the names, addresses, and telephone numbers of three people who will write reference letters, a statement of teaching philosophy, and a letter of commitment to the chairpersons of the basic science departments, and allocating resources and space in support of undergraduate and graduate education development. Interested candidates should forward their curriculum vitae and letter of application to: Roy S. Weiner, M.D., Director, Tulane Cancer Center, 1430 Tulane Avenue, SL-68, New Orleans, LA 70112. Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST (CELL BIOLOGY)
ASTROM Biosciences, Inc., a growing cell therapy and medical device company, has a position available for a RESEARCH SCIENTIST—Cell Biology. Requirements include a Ph.D. in cell biology or related field, and a minimum of three years’ experience in hematopoietic research. The selected candidate will participate in a research program focused on the use of human stem cell production and hematopoiesis. Candidates must have experience with human hematopoietic cell culture, stem cell selection and characterization, molecular biology techniques, and flow cytometric and cytologic assays. Competitive compensation and benefit package. Please send resume to: Cell Biology Recruiting, ASTROM Biosciences, Inc., P.O. Box 376, Ann Arbor, MI 48106-0376 Equal Opportunity Employer.

TECHNICIAN
Department of Medicine, University of California, San Francisco
TECHNICIAN needed for studies involving tissue culture relevant to lipoprotein metabolism. Methods used include radio-labeling, gel electrophoresis, and autoradiography. Methods will also include those needed to assist investigators transfecting cultured cells and making vectors for transfection studies employing a full spectrum of RNA techniques. Send curriculum vitae to: Ms. Irene Franck, Administrative Assistant, Dept. of Preventive Medicine and Nutrition, Columbia University, 630 West 168th Street, 9-510, New York, NY 10032. We take Affirmative Action toward Equal Opportunity.

UNIVERSITY OF MIAMI SCHOOL OF MEDICINE
Sylvester Comprehensive Cancer Center

POSTDOCTORAL ASSOCIATE: A recent Ph.D. with expertise in neurobiology/neuropharmacology/cellular pharmacology/molecular biology of drug response. We have well-equipped labs in support of a multidisciplinary lab/clinic translational program in monitoring and modulating drug responses in cancer. Applicants should have experience with names of three referees: Awtar Krishan, Ph.D., Associate Director, C/O Desiree Upt brig, Sylvester Comprehensive Cancer Center (D-1), P.O. Box 0169600, Miami, FL 33101. Affirmative Action/Equal Opportunity Employer.

PROGRAM MANAGER, Associated Western Universities, Inc. (http://online.awu.org/), administrator of science education programs since 1959, seeks MANAGER for postsecondary programs at Salt Lake City office. Advanced science or engineering degree; teaching or research experience in a university, government, or industry required. Send resume to: R. Green (info@nw.awu.org), AWU NW, 725 The Parkway, Suite 100, Richland, WA 99352 by April 15, 1996.

PROTEIN/MOLECULAR BIOCHEMIST: Post-doctoral position in neuroscience research, including glutamatergic neurotransmission, membrane transporters, intracellular transduction employing mammalian/baculovirus expression cloning. Must be capable of using and maintaining FPLC, HPLC, Western blot, NIH scale salary. Molecular expertise (e.g., plasmid bitioning) or desire for Lehman, Ph.D., Associate Professor, Department of Neurosurgery, MS 407, Medical College of Pennsylvania and Hahnemann University, Broad and Vine, Philadelphia, PA 19112-1092.

SENIOR WETLAND RESTORATION SPECIALIST
Well-established San Francisco Bay ecological consulting firm seeks the following POSITION: SPECIALIST, with minimum of five to ten years of experience, for project manager position. Doctorate in associat ed discipline (wetland ecology, botany, aquatic biology, etc.) preferred, although Master’s degree with excellent pertinent experience will be considered. Experience must include restoration and monitoring design and implementation, project management, wetland permitting and regulation. Very competitive salary and benefits package; compensation commensurate with education and experience. Send detailed resume to: Daniel Stephens, H.T. Harvey and Associates, P.O. Box 1180, Alviso, CA 95002. Telephone: 408 263-1814. Closing date: July 30, 1996.

TWO TENURE-TRACK FACULTY POSITIONS
1) Plant Metabolic Engineering/Molecular Physiology
2) Molecular Genetics
Department of Agronomy, University of Kentucky

These positions offer exceptional opportunities to develop a strong academic research program while participating in biotechnology initiatives. The positions include full academic appointments, and are 12-month, TENURE-TRACK. Excellent facilities, core support services, a strong start-up package, and highly competitive compensation and benefits are available. The successful applicants will conduct research in basic and applied molecular genetics and physiology at the Tobacco and Health Research Institute, which is aggressively expanding its plant research efforts to develop engineered crops for completely new applications. While the primary objective will be to further our fundamental knowledge of plant physiology and genetics, these faculty will also be expected to maintain a strong interest in the application of their findings to the development of new and useful plant germplasm.

Candidates for position 1 should have a Ph.D. in a plant science field with professional experience in molecular genetic approaches to investigate plant physiology. For position 2, experience with higher plant systems is advantageous but not essential, and postdoctoral experience with state-of-the-art methodology in molecular genetics is required. By May 28, 1996, send curriculum vitae, transcript copies, and names and addresses of three references to: Mr. Frank Smith, Department of Agronomy, University of Kentucky, Lexington, KY 40546. Contact: H. Maier Davies, Tobacco and Health Research Institute, University of Kentucky, Lexington, KY 40546. Telephone: 606-257-5798; Email: mdavies@pop.uky.edu for more information and a formal position description.

MEDICAL COLLEGE OF PENNSYLVANIA/HAHNEMANN UNIVERSITY
The Edward Jekkall Muscular Dystrophy Association Fellowship

The Medical College of Pennsylvania and Hahnemann University (MCPH) announces the Edward Jekkall Muscular Dystrophy Association FELLOWSHIP funded through the generosity of the Muscular Dystrophy Association and the late Edward Jekkall. This program has been established to strengthen the training program for senior postdoctoral fellows about to move into faculty positions or junior research faculty members, including physician-scientists, interested in neuromuscular disease research at MCPH. The fellowship carries an annual stipend of $35,000 plus fringe benefits, and in addition offers a research expense fund of $5,000. The duration of the award will be two years.

Applications are invited to identify a sponsor from within the training faculty at MCPHU and to prepare an application with the sponsor, who will provide the research support and, if appropriate, a salary supplement. The research project should be in an area consistent with the objectives of the Muscular Dystrophy Association. Application forms and a description of the training faculty may be obtained by writing to: Dr. Donald S. Faber, Professor and Chair, Neurobiology and Anatomy, Medical College of Pennsylvania/Hahnemann University, 3200 Hamilton Street, Philadelphia, PA 19129. Completed applications (with two letters of recommendation) should arrive at MCPHU by July 1, 1996.

POSTDOCTORAL POSITION
Applications are invited for a NEI-funded position to study the role of gap junctions in retinal circuitry. Experience in molecular biology or electrophysiology is required. Send curriculum vitae, short statement of research interests, and the names of three references to: Stephen C. Massey, Ph.D., Department of Ophthalmology and Visual Science, University of Texas Medical School, 6431 Fannin, Houston, TX 77030. Email: smassey@gabs.gst.uth.tmc.edu. The University of Texas is an Equal Opportunity Affirmative Action Employer. Women and minorities are encouraged to apply.

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1940

SCIENCE • VOL. 271 • 29 MARCH 1996
MINORITY YOUNG INVESTIGATOR AWARD

The University of Michigan Institute of Gerontology is a recent recipient of a Nathan Shock Center Grant for Research on the Basic Biology of Aging (John Faulkner, PI) from the National Institute on Aging. The major gerontological research themes of the Center faculty are musculoskeletal frailty, integrity of protein molecules, and signal transduction. As a part of the Center’s research development initiatives we invite applications for a visiting faculty award in an amount up to $5,000 in travel funds per year for five years for specified collaborative activities at the University of Michigan. The purpose of the MINORITY YOUNG INVESTIGATOR AWARD is to facilitate research career development by enabling the successful candidate to interact and collaborate with Center faculty, to utilize Center research resources, to participate in annual research workshops, and to compete for pilot research funds. Eligibility includes all minority investigators who are full time faculty members in a U.S. academic institution or research institute and at rank no higher than assistant professor. Complete applications must include a letter of interest, curriculum vitae, bibliography, and letters of recommendation from the applicant’s department chairperson and two additional individuals. Forward all materials for arrival no later than April 30, 1996 to Dr. Richard C. Adelman, Director, Institute of Gerontology, University of Michigan, 300 North Ingalls, Ann Arbor, MI 48109.

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At Chiron, our enthusiasm for biotechnology goes beyond looking for solutions to serious diseases. Our sights are set on helping people be their best. Whether they’re the patients who benefit from our breakthrough diagnostics, therapeutics, vaccines or ophthalmic devices ... or the Chiron professionals who make it happen.

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UNIVERSITY OF UTAH MEDICAL CENTER POSTDOCTORAL POSITION

A two to three year position is available in the molecular genetics laboratory of Bill Byerley in the Department of Psychiatry. The position will focus on identifying a schizophrenia gene(s) in a geographically and genetically isolated population. Methods may include linkage analysis, linkage disequilibrium, mutation screening, and DNA sequencing. Applicants (Ph.D. and/or M.D.) should have training and experience in some of the following areas: genotyping, physical mapping, gene identification, and DNA sequence analysis. Salary ranges from $25,000 and up depending on training and experience. The University of Utah offers a competitive benefits package.

Please write a letter of application including research background and interests, a copy of your curriculum vitae, and the names of three references to: Bill Byerley, M.D., Ph.D., Department of Psychiatry, University of Utah Medical Center, 50 North Medical Drive, Room 5R278, Salt Lake City, UT 84132. Email: byerley@hoo.hoo.med.utah.edu; FAX: 801-581-8040.

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

POSTDOCTORAL or RESEARCH ASSOCIATE position available to study the biochemistry of progressive renal disease in animal models and in cell culture. Techniques include Northern and Western analysis, reverse transcription PCR, in situ hybridization, ELISA detection of cytokines, immunohistochemistry, cell and tissue culture. Send curriculum vitae to: Jonathan R. Diamond, M.D., Division of Nephrology, The Methodist Hospital, P.O. Box 850, Hershey, PA 17033. For your health, Hershey Medical Center is a smoke-free campus. The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION available immediately to study the role of RNA binding proteins and NDK in translation. Familiarity with molecular biology and biochemical techniques is required. Preference will be given to applicants with experience in eukaryotic translation. Send curriculum vitae and names of three references to: Dr. William Walden, Department of Microbiology/Immunology (M/C 790), University of Illinois at Chicago, 835 South Wolcott, Chicago, IL 60612-7344. University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Two POSTDOCTORAL positions in theoretical molecular biophysics. The first involves the study of water and ion movement in self-assembling peptide nanotubes by molecular dynamics and related techniques. The second involves the study of cooperative solvent and electrostatic interactions in biological molecules by quasimacroscopic electrostatic models with the resulting partial differential equations solved by finite methods. A strong background in the relevant physics is required, and proficiency in C++ programming is desirable. Send curriculum vitae, brief summary of research accomplishments and aims, and three letters of reference to: Donald Bashford, MB-1, The Scripps Research Institute, 10666 North Torrey Pines Road, La Jolla, CA 92037. Email: bashford@scripps.edu.

POSTDOCTORAL RESEARCH ASSOCIATE: Molecular Biology: position available in Department of Nephrology, Yale Medical School for Ph.D. or M.D. with training and experience in molecular biology. Send curriculum vitae and names of three references to: John G. Westlund, M.D., Ph.D. or S. Dib-Hajj, Ph.D., Neuroscience Research Center, 127A, Building 34, VA Hospital, West Haven, CT 06516. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITION(s) available immediately to use molecular and genetic approaches to study the role of extracellular matrix molecules and cell-cell adhesion molecules in cancer. The position requires a Ph.D. or M.D./Ph.D. and experience in molecular techniques. Salary is negotiable according to experience and institutional guidelines. Send curriculum vitae, addresses of three references by November 15, 1996 and telephone and FAX numbers of three references to: Dr. Roberta A. Bortone, Ph.D., Department of Pediatrics, Cincinnati Children's Hospital Medical Center, 3333 Burnet Avenue, Cincinnati, OH 45229. Telephone: 513-874-4900; FAX: 513-874-5522.

POSTDOCTORAL RESEARCH POSITIONS available immediately to study the role of extracellular matrix molecules and cell-cell adhesion molecules in cancer. The position requires a Ph.D. or M.D./Ph.D. and experience in molecular techniques. Salary is negotiable according to experience and institutional guidelines. Send curriculum vitae, addresses of three references by November 15, 1996 and telephone and FAX numbers of three references to: Dr. Roberta A. Bortone, Ph.D., Department of Pediatrics, Cincinnati Children's Hospital Medical Center, 3333 Burnet Avenue, Cincinnati, OH 45229. Telephone: 513-874-4900; FAX: 513-874-5522.

CANCER RESEARCH POSTDOCTORAL TRAINING Case Western Reserve University Cancer Center NIH-funded cancer research POSTDOCTORAL positions for individuals holding the M.D., M.D./Ph.D. or Ph.D. degrees. Research focuses include, but are not limited to, cell cycle control, signal transduction, apoptosis, breast cancer, molecular virology, radiation biology, cellular adhesion, retroviral oncogenes, gene regulation, gene therapy, DNA repair, mutagenesis, immunology, cutaneous oncology, regulation of cell growth, neurooncology, steroid hormone action, and molecular biology of colon cancer.

Send curriculum vitae and statement of research interest to: Dr. Mark Boothby, Department of Microbiology and Immunology, Vanderbilt University, Nashville, TN 37232-1663. Email: markboothbymcmail.vanderbilt.edu.

POSTDOCTORAL POSITION available immediately to study molecular mechanisms by which estrogen modulates endothelial cell migration and differentiation. Well-funded lab group emphasizes open interaction and sharing of ideas. Training in cell and molecular biology is essential. Ph.D. or M.D./Ph.D. Send curriculum vitae and names of three references to: William Schnaper, M.D., Northwestern University Medical School, Department of Cell and Molecular Biology, 676 East Chicago Avenue, Chicago, IL 60611-3008. Telephone: 312-503-1180; FAX: 312-503-1181; Email: wcschnaper@nwu.edu. Northwestern University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately to study molecular genetics of nicotine acetylcholine receptor genes during development of the neuromuscular junction. Applicants should have a synthetic view of nicotine and/or its role in developing neuromuscular junctions. Send curriculum vitae, statement of research interests and experience, along with names and addresses of three references to: Dr. Donald C. Kebbel, Department of Cell and Molecular Biology, University of Michigan, Mental Health Research Institute, 205 Zina Pitcher Place, Ann Arbor, MI 48109. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

SCIENCE RECRUITMENT ADVERTISING

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SCIENCE • VOL. 271 • 29 MARCH 1996

POSTDOCTORAL FELLOW—Molecular Immunology: A motivated, self-starting Ph.D. scientist with track record in molecular biology is sought for a funded position in the laboratory of Dr. Richard P. Finke, Massachusetts General Hospital, Harvard Medical School, Boston, MA 02115. The laboratory studies the role of DNA, RNA, and protein in immune recognition. Investi...
Research Immunologist/Virologist
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Respiratory and Enteric Viruses Branch
Division of Viral and Rickettsial Diseases,
National Center for Infectious Diseases,
Centers for Disease Control and Prevention

The Centers for Disease Control and Prevention is seeking qualified applicants for a staff position in the Respiratory Virus Section, Respiratory and Enteric Viruses Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases. The appointee will direct and participate in studies of the immunologic response to respiratory syncytial virus, parainfluenza viruses, and other respiratory viruses. Studies may comprise a broad range of experimental approaches including detection of cytokines or cytokine mRNA, characterization of cell surface markers, assessment of types of inflammatory cells, measurement of cytotoxic T cell activity and lymphoproliferative responses, etc., to evaluate the immune and inflammatory responses to vaccines and natural infection in animal models and humans. The principal aim of this program is to develop safe and effective vaccines and to better characterize the pathogenesis of disease. Immunologists or virologists with laboratory experience in viral immunology are being sought for this position.

Qualifications preferred include a doctoral degree, significant scientific accomplishments in one or more areas of relevant research, and the ability to provide leadership for support staff.

Salary range is GS-12 Step 1 - $44,081 to GS-13 Step 10 - $68,145.

Further information about the position may be obtained from Larry J. Anderson, M.D. at (404) 639-3596.

Interested candidates may send their curriculum vitae in confidence along with the names of three professional references by May 1, 1996, to Janie L. Oddy, Human Resources Management Office, Centers for Disease Control and Prevention (K15), 4770 Buford Highway, Atlanta, GA 30341-3724.

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Postdoctoral/Research Associate Positions
Cellular & Molecular Biology of Epithelia & Melanocytes
New York University School of Medicine

Postdoctoral/Research Associate positions are available in a new research program to apply state-of-the-art cellular and molecular techniques to address fundamental questions in epithelial and melanocyte biology. Prior experience in molecular cloning and transgenic/knock-out technology is particularly desirable.

Research may be carried out in the laboratories of the following investigators:

1) Miroslav Blumenberg, Ph.D.: Control of gene transcription in the skin by hormones, vitamins, growth factors and cytokines;

2) Seth J. Orlow, M.D., Ph.D.: Cellular and molecular basis of cutaneous and ocular pigmentation; genetic basis of human skin disease;

3) Tung-Tien Sun, Ph.D.: Gene regulation and mesenchymal/epithelial interaction in hair follicle development; epithelial stem cells.

Interested candidates should submit a CV and the names and addresses of three references to:

Irwin M. Freedberg, M.D.
Professor and Chairman
The Ronald O. Perelman Department of Dermatology
New York University School of Medicine
550 First Avenue, Room H100
New York, NY 10016-6402
Fax: 212-263-8752
E-mail: irwin.freedberg@med.nyu.edu
New York University is an equal opportunity employer.
THE CHINESE UNIVERSITY OF HONG KONG

Applications are invited for:

Department of Biology
Lecturer (carrying the academic title of Assistant Professor or Associate Professor, as appropriate) (Ref. 96/010/665/2)

Applicants should have a Ph.D. in plant molecular biology or plant physiology with appropriate postdoctoral research experience. The successful candidate will participate in the teaching of undergraduate courses in plant physiology, molecular biology and biotechnology, and biology of higher plants, and is expected to develop a vigorous and competitive research programme on plant growth and development or related areas. Preference will be given to applicants with experience in the application of molecular biological approaches and techniques to the study of plant growth and development processes such as differentiation, flowering, or plant growth hormones responses. Additional desirable qualifications include some experience in plant cell transformation and tissue culture.

Annual Salary and Fringe Benefits
Lecturer
HK$454,200-758,700 by 10 increments
(approx. exchange rate in March 1996: US$1=HK$7.8)

Starting salary will be commensurate with qualifications and experience.

Benefits include leave with full pay, medical and dental care, education allowance for children, housing benefit for eligible appointee (with appointee contributing 7.5% of salary toward the provision of housing). Under regular contract, retirement benefits are provided by the University, while fixed term contract carries where appropriate a contract-end gratuity (15% of basic salary).

Application Procedure
Please send full resume in duplicate and names and addresses of three referees, with copies of academic credentials (in duplicate) and recent publications to the Personnel Office, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong (Fax: (852) 2603 6852) before April 9, 1996. Please quote the reference no. and mark “Recruitment on cover”.

THE UNIVERSITY OF OXFORD

Department of Zoology

University Lectureship in Zoology in association with Merton College

Applications are invited for the above post, tenable from 1 October 1996 or as soon as possible thereafter. Stipend according to age on the scale £15,154 to £28,215 per annum. The successful candidate may be offered a fellowship at Merton College.

Candidates will be expected to have a strong research record in either animal behaviour or ecology or both. The person appointed will be expected to contribute to undergraduate teaching in Biological Sciences under the aegis of the Department of Zoology, with particular input into either animal behaviour or ecology or both.

Further written particulars containing details of the duties and the full range of emoluments attaching to both the university and college posts can be obtained from Professor R.M. Anderson, Department of Zoology, University of Oxford, Oxford OX1 3PS. Telephone: (01865) 271277; Fax: (01865) 310447, to whom completed applications (8 typed copies, or one from candidates overseas), containing a curriculum vitae, a list of publications and statement of research, and the names of three referees should be sent by 19 April 1996. Candidates will be notified if they are required for interview.

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2. Lecturer
   HK$454,200-758,700

3. Lecturer
   HK$454,200-758,700

Directorship of the Institute of Molecular Biology
(Re-advertisement)

Applications are invited for the post of Director of the Institute of Molecular Biology (Ref.:96/096-6), tenable immediately. The Institute was under the part-time Directorship of Professor Y W Kan, FRS until 1994. Following the completion of the $90M building, the University now seeks to recruit a full-time director. Appointment will be made on a 5-year fixed-term contract, but consideration may also be given to appointment on superannuable terms.

Applicants must possess a doctorate degree, have a proven track record in biomedical research using molecular and cell biology techniques and have significant internationally recognized achievements in this area. The Director is expected to lead one research team as well as to manage and oversee the other research teams in the Institute. A successful record in research and in supervision of postgraduate students and management of large research groups would be preferable.

The University reserves the right not to fill the post or to fill the post by invitation or to make an appointment at a lower level.

Annual salary (non-superannuable but attracting 15% (taxable) terminal gratuity) will be within the professorial range, of which the minimum is HK$1,007,220 and the average in HK$1,345,709 (approx. US$190,806 & US$161,709 respectively) as at 4 March 1996, with starting salary depending on qualifications and experience.

At current rates, salaries tax will not exceed 10% of gross income. Housing at a charge of a percentage of salary, currently 7.5%, children's education allowances, leave, and medical benefits are provided.

Further particulars and application forms may be obtained from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (Fax: (852) 2540 6738/2559 2068; E-mail: APPTUNIT@REG.HKU.HK), or on WWW at http://www.hku.hk.

Closes 31 May 1996.

6th International Meeting on Chemical Sensors

Availability of Travel Grants Through Support of the National Science Foundation and the Office of Naval Research.

The meeting is scheduled for July 22-25, 1996 at The National Institute of Standards and Technology, Gaithersburg, Maryland. There is sufficient funds for approximately 15-20 young investigators from accredited U.S. Universities or Institutes to participate in this meeting. Full-time graduate students and post-doctoral research fellows or associates within three years of receiving their doctoral degrees are eligible for support. We strongly encourage women and minority representation in the program. The young investigators will participate in oral or poster presentations as well as special workshops. This meeting will provide an opportunity for a deserving young chemical sensor researcher to discuss and learn about chemical and biosensor research with an international group of scientists and engineers.

Interested persons are requested to submit a 1-2 page abstract of their proposed presentation along with a short resume including educational background. A letter from the requestor's supervisor regarding the full-time status of the graduate student or post-doctoral fellow or associate must accompany the request. All requests must be received no later than May 3, 1996. A committee will review the applicants' requests. Grantees will be notified by the end of May 1996. The decision of the review committee will be final.

Funds will be made available for transportation, food and lodging expenses as well as registration fees for the meeting.

Please send your abstract, short resume and supervisor's letter to:

Howard H. Weetall
Chairman, Organizing Committee
6th International Meeting on Chemical Sensors
National Institute of Standards and Technology
Biotechnology Division
Gaithersburg, MD 20899
301-975-2628
FAX: 301-330-3447
E-mail: howard.weetall@nist.gov.
Max Planck Institute of Psychiatry
Clinical Institute
Group of Molecular Neurobiology, Munich

Applications are invited for a **POSTDOCTORAL POSITION** in investigating interneuronal communication mechanisms in the CNS mediated by excitatory amino acid transmitters, peptides and steroids. Research experience in electrophysiology and molecular biology of neuronal systems in vitro is required. Most advanced technologies for the analysis of interneuronal communication pioneered by this group (IR- videomicroscopy, laser-stimulation) will be available in addition to up-to-date molecular techniques.

Applications should be addressed to Personnel Office, Max Planck Institute of Psychiatry, Clinical Institute, Kreselinstr. 2-10, D-80804 Munich, Germany.

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**NATIONAL UNIVERSITY OF SINGAPORE**
National University Medical Institutes
Faculty of Medicine
**RESEARCH SCIENTISTS**
(Cardiovascular and Oncology Research)

We seek experienced Research Scientists for the newly established National University Medical Institutes in the Faculty of Medicine, National University of Singapore. The successful applicants should have a strong background of independent research in the cellular or molecular aspects of either cardiovascular diseases or cancer and is expected to lead a research team as Principal Investigator. Interested applicants should submit a statement of research interests, curriculum vitae, list of publications, and the names of three referees to: The Director, National University Medical Institutes, Blk MD11 #02-01, Clinical Research Centre, Faculty of Medicine, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260, Republic of Singapore.

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Four POSTDOCTORAL POSITIONS are available as part of a multidisciplinary project to develop and exploit efficient and reliable methods for soybean transfor-
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ular biology, plant tissue culture and regeneration; plant transformation; microbial molecular genetics. The successful can-
didates will be involved in research projects in micro-
bial molecular genetics, and/or soybean biology.

POSTDOCTORAL POSITIONS are available immediately to investigate the expression of the flavonoid pathway in soybean and the molecular nature of mutations that affect seed and flower color variation. Experience in molecu-
lar biology and genetics desired. Excellent laboratory fa-
cilities and equipment available. Apply preferably by May 1, 1996; positions open until filled. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION is immediately available to investigate expression of the flavonoid pathway in soybean and the molecular nature of mutations that affect seed and flower color variation. Experience in molecu-
lar biology and genetics desired. Excellent laboratory fa-
cilities and equipment available. Apply preferably by May 1, 1996; positions open until filled. Send a curriculum vitae including a cover letter outlining your research back-
ground and interests, a copy of graduate school tran-
scripts, and three letters of recommendation to: Dr. Lila Vodkin,.Department of Crop Sciences, University of Illinois, Urbana, IL 61801. Telephone: 217-333-4604; FAX: 217-333-4777; Email: lvodkin@uiuc.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available, start-
ing July 1, 1996 in the Division of Nephrology-Hyperten-
sion at University of California, San Diego. Candidates must hold an M.D. or Ph.D. degree and be U.S. citizens or permanent residents. We are interested in research on renal physiology and pathophysiology, genetic and pharma-
cotherapy analysis of hypertension, autoimmunity, and cell bi-
ology. Send curriculum vitae (including the names of three references) to: Roland C. Blantz, M.D., Division of Ne-
phrology-Hypertension (1111H), 3350 La Jolla Village Drive, San Diego, CA 92161. FAX: 619-582-7549. The University of California, San Diego.

POSTDOCTORAL ASSOCIATE: Position available immediately for structural studies of salivary proteins and glycoproteins. Ph.D. required in biophysics/struc-
tural biology with experience in heteronuclear multi-
dimensional NMR. Background in peptide synthesis also desirable. New 500 MHz spectrometer available. Please send curriculum vitae along with names, addresses, and telephone numbers of three references to: J. Levine, Department of Oral Biology, SUNY/ BUFFALO, 109 Foster Hall, 3435 Main Street, Buffalo, NY 14214. Email: j Levine@sunybuffalo.edu. An Equal Opportu-

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A POSTDOCTORAL POSITION is available for studies of the molecular structure and mechanism of a P-type ATPase. The neurospora plasma membrane H+-
ATPase has been crystallized and its structure is emerging. A high yield in vitro expression system is also available. Research will involve crystallographic or molecular bio-
logical approaches. Send curriculum vitae and names of three references to: Dr. Gene A. Scarborough, Depart-

POSTDOCTORAL POSITION INSTITUTE FOR HUMAN GENE THERAPY

Study cellular and molecular mechanisms of atheroscle-

A POSTDOCTORAL POSITION is available to study transcriptional/post translational regulation of G protein coupled receptors. The applicant should be a re-
cent Ph.D. with a strong background in molecular biology and/or protein chemistry and experience with transcrip-
tion and three reference letters to: Dr. M. Kwatra, Duke University Medical Center, Box 3094, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative

POSTDOCTORAL POSITION

Applications are invited for POSTDOCTORAL POSITIONS to study the molecular and cellular mechanisms of the cell cycle. Studies fo-
cus on the interaction between the cell cycle regulatory proteins and the cell cycle progression as well as their upstream regulators and down-
stream targets. Studies incorporate techniques in molecular biology, biochemistry, cell biology, and genetics. Qualified candidates should possess either a Ph.D. and/or M.D. in a relevant field. Applicants should send curriculum vitae, a description of research experience, and three letters of recommendation to: Dr. Scalzotto, University of North Carolina, Chapel Hill, NC 27510. University of North Carolina is an Equal Opportunity/Affirmative Action Employer.

Helen Piwnica-Worms, Ph.D., Department of Cell Biology and Physiology and Howard Hughes Medical Institute Washington University School of Medicine 660 South Euclid Avenue Box 8228 St. Louis, MO 63110 Email: hpiwnica@cellbio.wustl.edu

POSTDOCTORAL POSITION

Dana-Farber Cancer Institute
Harvard Medical School

Our laboratory focuses on the molecular basis of childhood leukemia, with particular focus on the mechanism of action of oncoviral origin of the TEL protein (Cell, 77:30-39 (1994)). We are interested in studies of transcrip-
tional regulation, signal transduction, and animal model-
ning. Applicants should have a Ph.D. with training in mo-
lecular biology. Send curriculum vitae and names of three references to: Dr. Daniel Farnham, Center for Genomic Research, 44 Binney Street, Boston, MA 21115.

Two POSTDOCTORAL POSITIONS are open for scientists interested in gene regulation during the develop-
ment of red blood cells. Applicants must have a Ph.D. or M.D. degree with experience in molecular biology. Projects include erythropoietin signaling during apop-
osis and proliferation, analysis of a transcriptional promoter utilized in erythroid cells, identification of growth factors in serum, and characterization of hem biosynthetic enzymes during erythropoiesis. Send curriculum vitae, reprints, and names, addresses, and telephone numbers of three references to: Dr. Andrew B. Mirkin, Johns Hopkins University School of Medicine, Ross Building 1125, 720 Rutland Avenue, Baltimore, MD 21205.

POSTDOCTORAL POSITION(S) available to study the pathogenesis of Alzheimer’s disease using mo-
lecular, cellular, and transgenic animal systems. Minimum requirements: Ph.D. with experience in molecular and/or neurobiology, prefer ES cell experience. Salary based on experience: $19,000 to $20,000 plus fringe benefits. Send curriculum vitae, names, addresses, and telephone numbers of three references to: Dr. Ken Fukuchi, M.D., Ph.D., Department of Comparative Medicine, University of Alabama at Bir-
mingham, 1670 4th Street, Birmingham, AL 35294-0019. FAX: 205-975-5519.

POSTDOCTORAL POSITION(S) available to study the molecular basis of biological function. Recruit-
ment from Ph.D. or M.D. scientists. Salary based on experi-
ece. Send curriculum vitae, names, and addresses of three references to: Drs. Andrew B. Mirkin, Boston Children’s Hospital, 300 Longwood Avenue, Boston, MA 02115.

POSTDOCTORAL POSITION(S) available immediately at the Dana-Farber Cancer Institute. This project involves the generation and evaluations of DNA vaccines to prevent retroviral infection and disease. We are seeking a molecular biologist who will be involved in studying gene expression systems. Experience in virology and/or immu-

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POSTDOCTORAL POSITION available immediately for studies of primary structures of receptors for cAMP and cGMP. Candidates should be interested in the role of cAMP and cGMP in the regulation of protein kinases.

MOLARITY ENDOCRINOLOGY

POSTDOCTORAL POSITION available immediately for studies of primary structures of receptors for cAMP and cGMP. Candidates should be interested in the role of cAMP and cGMP in the regulation of protein kinases.

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On 14 June, SCIENCE will publish a special advertising section devoted to career opportunities for scientists with disabilities. This section will examine the steps being taken by employers to make their work environments accessible to all scientists.

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RESEARCH ASSISTANT PROFESSOR

A RESEARCH ASSISTANT PROFESSOR position is available in the Department of Psychology, University of Pennsylvania. Candidates should have either an M.Ph./Ph.D. or M.D. degree with experience in in vivo imaging, neuropharmacology, or related areas of neuroscience. Knowledge of tract-tracing and animal behavior is not necessary. The scientist will participate in a team member in developing 1H-13C and 1H-19F labeled tracers for functional imaging of CNS neurotransmitters with SPECT in animals and humans. A generous start-up package will be provided and the scientist is expected to develop extramural research support. Send resume to: Hank F. Kung, Ph.D., Department of Psychiatry, University of Pennsylvania, Philadelphia, PA 19104-4288. Email: kunghf@sunmac.spectrum. upenn.edu; http://hank.kung.med.upenn.edu.

DIRECTOR

PULMONARY BIOLOGY PROGRAM
Children’s Memorial Institute for Education and Research
and Northwestern University Medical School
Chicago, Illinois

Applications and nominations are solicited for a strong individual to direct new research activities in Pulmonary Biology in the Department of Pediatrics at Northwestern University and the Children’s Memorial Institute for Education and Research. This position offers excellent opportunities for collaborative research and extramural support between clinical and laboratory research programs.

Outstanding candidates will have demonstrated leadership ability, a track record of scholarly achievement and an active, productive program in laboratory research related to lung biology. Previous training and experience must qualify the candidate for a faculty position in the Northwestern University Medical School at the rank of ASSOCIATE or FULL PROFESSOR.

For full consideration, applications must be received by July 31, 1996. Submit letter of application and curriculum vitae to: Thomas P. Green, M.D., Pulmonary and Critical Care Medicine, Children’s Memorial Hospital, 2300 Children’s Plaza, Number 73, Chicago, IL 60614. Telephone: 312-880-4780; FAX: 312-880-4057.

We welcome the interest of all qualified candidates, and especially wish to encourage applications from women and minority groups.

RESEARCH ASSOCIATE

for university in central Ohio. Conducting biochemical research in DNA tran-
scription theory and applications. Establishing analytical methods and procedures for RNA, DNA and RNA poly- merase interactions. Conducting presteady-state kinetic studies and simulation of purification and isolation mechanisms. Performing isolation and purification of RNA polymerase. Developing enzymatic assays using modern analytical techniques. Conducting gene expres- sion, DNA sequencing, RNA sequencing, polymerase chain reaction (PCR), radiolabeling and cell, DNA end-labeling, preparing reports and manuscripts, teaching and supervision in the laboratory. Master’s in biological sciences and one year of experience in above-described duties or one year of experience in developing and performing enzymatic assays using rapid chemical-quantification flow; stopped-flow; high performance liquid chromatography (HPLC); thin layer chromatography (TLC); spectrophotometry; and other techniques; perfor- mance of protein and/or RNA purification; measuring protein DNA interaction; molecular biology experiments to express proteins and prepare mutants; developing rapid kinetic techniques and computer simulation software for the same. Experience may have been gained during or after required degree. 40 hours per week, 8 am to 5 pm, Monday through Friday, $22.16. Send two resumes and cov- er letters (no calls) to: Pat Hulst, Reference 1635, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

RESEARCH ASSOCIATE,
Cacao Transformation,
Penn State: Research Associate to develop an efficient fermentation system for cocoa beans. An initial offer of one year will be made renewable on a yearly basis for at least three years contingent on successful progress. A Ph.D. in plant tissue culture or fermentation system required. Contact: Mark Gulian, Department of Horticultu- re, Penn State University, Department of Science, 300 Wartik Lab, University Park, PA 16802-5807. Email: mgulian@psucon.psu.edu.

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SCIENCE • VOL. 271 • 29 MARCH 1996

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L-Amyloid (25-35)  
98%  
0.5 mg  
50.00

Circle No. 1 on Readers’ Service Card

**MARKETPLACE**

**PeptidoGenic**  
The Peptide Engineering Specialist  
E-mail: pkim@ccenet.com  
Fax: 510-371-1156  
Voice: 800-597-7873  
510-371-1070

Engineered Peptides: Phosphorylated, Thio-phosphorylated  
Antibodies, Antibody Cytes, FITC, ENP (DNA, Degrays), MAPS,  
AMC, Enzyme substrates/inhibitors, Psichi-NH₂ and more...

Circle No. 33 on Readers’ Service Card

**CUSTOM DNA**  
$1.19 per base  
200 nmol scale (10 - 20 ODU)  
No setup charges  
Deprotected & Desalted  
A 20-mer is only $24! * 24 - 48 hours shipping

Circle No. 6 on Readers’ Service Card

**CUSTOM PEPTIDES**  
$20 residue  
15 - 40 mg  
Free mass specs & HPLC tracing  
No setup charges  
Deprotected and Desalted  
5 - 6 days shipping  
Antipeptide antibodies available

Circle No. 12 on Readers’ Service Card

**CUSTOM DNA SYNTHESIS**  
**$1.19** per base  
Plus Setup*  
High quality  
High capacity  
Fast turnaround

Circle No. 10 on Readers’ Service Card

**MARKETPLACE**

**American Peptide Company**  
777 Birch Ave., Sunnyvale, CA 94086 USA  
Tel: 800-288-8772 Fax: 408-733-7600

Circle No. 1 on Readers’ Service Card

**Express Peptides**  
15-40 mg in 5 days  
$18 per residue

Circle No. 7 on Readers’ Service Card

**Circle No. 27 on Readers’ Service Card**
APPLICATIONS:

* Hybridoma & Quadrorna Formation to Produce Bispecific Antibodies
* Fusion of Plant Protoplasts
* Animal Embryo Manipulation
* Electroporation of Plant, Mammalian, Bacteria, Yeast and Fungi

Monitor experiments with the Optimizer*

Print results immediately

Included with “Super System” Optional with other systems

Printer and remote control included with all ECM 2001 Systems

THE PRODUCTION OF BISPECIFIC ANTIBODIES... The “Wave” Of The Future!

Electrofuse hybridomas to produce bispecific antibodies - simpler, faster, and more economically.

Produce quadromas in as little as 2 to 4 weeks!

Does not require drug selection markers.

Non-invasive, non-toxic, non-chemical procedure.

Improves yields and hybridoma recovery by as much as 100-fold.


For Additional Info, Call: 1-800-289-2465
I.M.A.G.E. Consortium [LLNL] cDNA Clones

- Over 250,000 5' and 3' sequences deposited into public databases
- Sequence data searchable using the blast e-mail server at NCBI (blast@ncbi.nlm.nih.gov)
- Text searchable for any information such as putative gene function using the dBest/GenBank query (http://www.ncbi.nlm.nih.gov/Search/index.html)
- Clones shipped within 24 hours for orders received by noon CST

These newly available cDNA clones, the expansion and sequencing of which was made possible by a substantial grant from Merck & Co., may be ordered directly from Research Genetics by phone, fax, or most conveniently via our homepage ordering system (at http://www.resgen.com). When ordering, please keep in mind that the clone ID # is the number assigned by I.M.A.G.E. Consortium, not the NCBI number or the Genbank accession number. The clones are shipped as a bacterial stab in LB agar.

The cDNA library may also be purchased on membranes. A total of nine membranes are used to spot the library, with 27,684 unique clones spotted in duplicate per membrane.

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<th>Catalog No.</th>
<th>Description</th>
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<tr>
<td>97002</td>
<td>Individual I.M.A.G.E. Consortium cDNA Clones</td>
<td>$45.00 for the first clone,</td>
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<td>$24.00 for each additional clone</td>
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<td>97003</td>
<td>I.M.A.G.E. Consortium cDNA Clones double spotted onto nine membranes</td>
<td>$2,540</td>
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Research Genetics, Inc.
2130 Memorial Pkwy SW • Huntsville, AL • 35801
U.S. or Canada 800-533-4363 • U.K. 0-800-89-1393 • FAX 205-536-9016
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