DNA Recovery from Agarose Gels
A new generation of spin columns offers efficient recovery of functional DNA from agarose gels. Place the gel slice in a GenElute agarose spin column, place the spin column in an Eppendorf tube, and centrifuge the assembly in a microcentrifuge for 10 min. DNA, recovered in the Eppendorf tube, is ready for ligation, cloning, restriction enzyme digestion, or labeling. Recovery of DNA fragments of 100 bp to 22 kbp is 80 to 90%. As little as 50 ng of DNA can be eluted from any kind of agarose. Supelco. Circle 141.

Genomic DNA Purification Kit
With the Wizard Genomic DNA Purification Kit, isolations can be performed in as little as 40 min on a variety of samples, including whole blood and cultured cells. The method does not require the use of any resins, columns, proteinases, or organic extractants. Yields of between 5 and 15 μg of DNA with an A260/A280 ratio of between 1.6 and 1.9 can be expected from 300-μl whole blood samples. The DNA is suitable for use in various amplification, restriction enzyme, and dot blot applications. Promega. Circle 142.

Gel Documentation and Analysis Software
The IS-1000 is designed to reduce the cost of gel documentation and to eliminate the need for an expensive densitometer to quantify gels. The IS-1000 is the only fully integrated digital imaging system that offers precise image acquisition, instant high resolution prints, and quick quantitative analysis of nucleic acid and protein gels. The system is suitable for use with a wide range of stains, including ethidium bromide, Coomassie blue, silver, and fluorescent. The unit can also be used to quantitate autoradiograms, protein immunoblots, and microtiter plates, and for counting colonies. Alpha Innotech. Circle 143.

Benchtop Documentation System
The FOTO/Analyst MiniVisionary Benchtop Digital Documentation System is a compact inexpensive electronic imaging system. Designed for rapid documentation of electrophoresis gels, thermal prints can be produced for a tenth of the price of conventional prints with the touch of a button. An integration feature allows the acquisition of very low light fluorescent gels; as little as 0.5 ng of ethidium bromide-stained DNA can be detected. Fotodyne. Circle 144.

Literature

Human Plasma Enzymes and Proteins ’95 is a catalog of reagents for research into coagulation, hemostasis, thrombosis, and other blood clotting-related subjects. Products include antiserum, monoclonal antibodies, enzyme substrates and inhibitors, heparin derivatives, and detergents. Alexis Biochemicals. Circle 145.

Bio- and Production-Chromatography Sorbents is a four-page leaflet on these products. Merck. Circle 146.

Microbore Peptide Mapping with the DX 500 is an application note that discusses analytical methods at low flow rates using a gradient pump. Dionex. Circle 147.

Developing Methods is a series of 18 reports that cover purification and concentration of monoclonal antibodies, gamma-globulin, nucleotides, and other proteins and peptides. New microporous ion exchange membranes show superior performance in these tasks. Sartorius. Circle 148.


Understanding Full-Spectrum Quantitation (FSQ): The “Principal” behind the Application is a technical bulletin on an advanced method for multicomponent analysis on a spectrophotometer. Beckman Instruments. Circle 150.
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Announcing the Hyman method, a new method for synthesizing oligos:
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If you are planning a project which uses oligos, learn in detail how this new technology works and how it can enhance your project capabilities. Do not make the mistake of buying an amide machine, which will be outdated by the time you receive it. Learn how the next generation of benchtop oligo synthesizers will offer 100 fold increased throughput.

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The Department of Pharmacology, University of Kentucky College of Medicine at Lexington is expanding its programs in Molecular Pharmacology. Excellent facilities and new resources are available to support this expansion. A tenure-track position is available at either the ASSISTANT or ASSOCIATE PROFESSOR level. We encourage applications from candidates whose research involves the development and testing of pharmacological and biochemical methods in the study of the structure and function of voltage-gated or ligand-gated ion channels. Potential relevance to neuro-degenerative, cardiovascular or other neurological conditions is desirable but not essential. Candidates should have a Ph.D. or M.D., with several years of postdoctoral experience and clear evidence of the ability to sustain and develop an independent, externally funded research program. The successful candidate should also be interested in possible collaborative departmental projects with other faculty involved in molecular systems and physiological research. Participation in departmental training of medical and graduate students is also an important aspect of this position. Interested candidates should send curriculum vitae and the names, addresses and telephone numbers of three references to:

Search Committee
Department of Pharmacology
University of Kentucky
College of Medicine
Lexington, KY 40536-0084

The University of Kentucky is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

YALE UNIVERSITY
DEPARTMENT OF CHEMISTRY

The Department of Chemistry, Yale University, invites applications for a position at the ASSISTANT PROFESSOR level to commence fall 1996. We seek creative teacher-scholars who show promise for developing outstanding research programs in the broad field of organic chemistry. Applicants should send curriculum vitae and a statement of research plans and arrange for the submission of three letters of recommendation. All materials should be received by 31 October 1995. Send applications to: Professor Alanna Schepartz, Chair, Organic Chemistry Search Committee, P.O. Box 208107, Yale University, New Haven, CT 06520-8107. Yale University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION
THE WEIZMANN INSTITUTE OF SCIENCE

The Department of Biochemistry at The Weizmann Institute of Science, Rehovot, Israel, is seeking applicants for a tenure-track position at the Senior Scientist (ASSISTANT PROFESSOR) level starting in the spring of 1996 or later. The Department of Biochemistry provides an excellent and stimulating research environment, with groups conducting research in molecular genetics (gene expression, DNA replication and repair), and bioenergetics (mitochondrial function). Candidates are sought in these and other areas of biology, preferably with a background in protein-DNA interactions, molecular or developmental genetics, enzymology, or protein structure and physical methods. The successful candidate is expected to establish an independent and creative research group. Applications should include research plans, curriculum vitae, list of publications and the names of three references. The position is limited to a 4-year term and offers a competitive salary package. There are abundant possibilities for postdoc associates, visiting scientists and students (both domestic and international). In many cases, the position can be extended beyond the initial 4 years. The successful candidate is expected to obtain an academic support. For further information or to apply, please contact: Prof. Zvi Livneh, Head, Department of Biochemistry, Weizmann Institute of Science, Rehovot 76100 Israel.

Applicants interested in this position should send a curriculum vitae, list of publications and the names of three references to: Prof. Zvi Livneh, Head, Department of Biochemistry, Weizmann Institute of Science, Rehovot 76100 Israel.

NATIONAL TAIWAN UNIVERSITY
DEPARTMENT OF BOTANY

Applicants are invited for three faculty positions (ASSISTANT to FULL PROFESSOR). A Ph.D. with experience in any area of plant sciences will be considered, but extensive postdoctoral experience is preferred. Applications are available after August 1, 1996. Applicants should send curriculum vitae, copies of publications and the names of three references. Offers will be made to the most qualified applicants. Please send curriculum vitae and names of references to:

Dr. C. Y. Tsai
Department of Botany
National Taiwan University
Taipei, Taiwan, ROC

ASSISTANT PROFESSOR OF FOOD CHEMISTRY

The Department of Food Science at Cornell University invites applications for a 12-month tenure-track ASSISTANT PROFESSORSHIP. Responsibilities will include teaching an undergraduate course in food analysis, participation in undergraduate-level team-taught courses in advanced food chemistry, and development of an innovative research program in food chemistry that will attract external funding and provide research opportunities for both undergraduate and graduate students. Qualifications include a Ph.D. in food science, biochemistry, chemistry, or closely related field and demonstrated achievement or potential in effective teaching and creative research. Applicants should submit a letter of application, statement of teaching and research interests and goals, curriculum vitae, undergraduate and graduate transcripts, and three letters of reference to: David Barbano, Department of Food Science, 118 Stocking Hall, Cornell University, Ithaca, NY 14853-7201. Telephone: 607-255-7616. Review of applications will begin on September 15, 1995. Cornell University is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF GENETICS
UNIVERSITY OF WASHINGTON

The Department of Genetics at the University of Washington seeks applicants with at least two years of postdoctoral experience for a tenure-track position at the level of ASSISTANT PROFESSOR. The Department seeks an individual who will develop an active research program using genetic approaches to study a fundamental biological process and who will have graduate and undergraduate level teaching responsibilities. Applicants should submit a curriculum vitae, summary of research interests, copies of two or three major publications and three letters of reference by October 15, 1995, to:

Search Committee
University of Washington
Department of Genetics
Box 357360
Seattle, WA 98195-7360

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The University of Virginia is seeking qualified applicants for a tenure-track ASSISTANT PROFESSOR position in the area of organic chemistry. Candidates are expected to establish a high quality productive research program that will attract outside funding and top caliber graduate students and postdoctoral collaborators. Teaching ability at both graduate and undergraduate levels is a prime consideration. Applicants should send a curriculum vitae, copies of reprints/preprints, and a detailed description of research plans no later than November 1, 1995, to: Prof. James A. Marshall, Chairman, Department of Organic Chemistry Search Committee, Department of Chemistry, McCormick Road, University of Virginia, Charlottesville, VA 22902. Applicants should also arrange that three letters of recommendation be sent to the above address by the same date. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

The University of Vermont College of Medicine is seeking both candidates and nominations for the position of PROFESSOR and CHAIR of the Department of Pharmacology. Current strengths of the Department exist in studies at the tissue and molecular level in the areas of vascular biology, cancer biology, and ion channels research. Ph.D., M.D. or equivalent degree is required. Candidates should have demonstrated record of leadership, excellence in teaching, and productivity in research. Applications will be accepted until the position is filled. Review of the candidates will begin by September 15, 1995. Curriculum vitae and a letter of interest should be sent to:

Edwin G. Bovill, M.D.
Chair, Department of Pharmacology
University of Vermont College of Medicine
E-109 Given Building
Burlington, VT 05405

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CHAIR,

implications of December scientists interact numbers CASE WESTERN RESERVE UNIVERSITY SCHOOL OF MEDICINE

Case Western Reserve University (CWRU) School of Medicine invites applications and nominations for the position of CHAIR of the Department of Environmental Health Sciences. The Department search is for an individual with demonstrated expertise in toxicology and implications of research on human health and public health implications to continue the CWRU tradition of interdisciplinary research and education.

The individual would be expected to develop a strong departmental research program and to participate in the doctoral and postdoctoral programs to include new education initiatives. Letters of application and curricula vitae should be submitted to the search committee.

The Weizmann Institute of Science, Rehovot, Israel offers a limited number of VISITING PROFESSORSHIPS in the Natural and Exact Sciences. The Visiting Professorships are intended for candidates already holding a permanent position as Full Professor or equivalent and will be for a duration of two months to one year.

Deadline for submission of completed applications is: December 31, 1996.

For further information or application forms, please contact: The Academic Secretary, The Weizmann Institute of Science, Rehovot 76100 Israel. Tel.: 972-8-381300; FAX: 972-8-471667; Email: RMSAR@WEIZMANN. WEIZMANN.AC.II.

UCLA TENURE-TRACK FACULTY POSITIONS VECTOR BIOLOGY AND GENE THERAPY

The UCLA Interdepartmental Program in Gene Therapy (IPGT) invites applications for assistant professor positions in gene therapy. The Department of Microbiology and Immunology at the University of California at Los Angeles is committed to excellence in research and education in the areas of molecular virology, microbiology, and medical microbiology.

UCLA TENURE-TRACK FACULTY POSITIONS NUTRITIONAL BIOCHEMISTRY

The Department of Nutritional Sciences, University of California at Berkeley, invites applications for assistant professor positions. The University of California is an Affirmative Action/Equal Opportunity Employer. Women, minorities and persons with disabilities are encouraged to apply.

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**Position in Signal Transduction at the National Institute of Environmental Health Sciences**

The National Institute of Environmental Health Sciences, National Institutes of Health, seeks to appoint an outstanding scientist in the field of molecular signal transduction. Applications are invited from candidates at levels qualifying for tenure-track positions, as well as from more senior scientists with established programs. All candidates with demonstrated potential for creative research in the biological sciences may apply, but priority will be given to applicants utilizing cellular and molecular approaches to study intermediate steps in signal transduction pathways, for example, phosphorylation-dephosphorylation cascades. In addition to establishing an independent program of basic research, the successful candidate will have the opportunity to interact with investigators studying diverse problems in the field of signal transduction, including receptor mechanisms, G-proteins, inositol phosphates, calcium signaling, ion channels, cell growth and differentiation, apoptosis, gene regulation, and cancer biology. This position will be either tenure-track (Senior Staff Fellow) or immediately tenured at the GS-13, GS-14 or GS-15, level, depending upon the qualifications of the successful candidate. There is also the possibility of hiring under the aegis of the newly created (Sylvio Conte) Senior Biomedical Research Service. Excellent space and research support are available. The level of support will be commensurate with the rank at which the successful candidate is hired.

For additional information concerning this position, contact Dr. Christina Tang, Chair, Signal Transduction Search Committee, at 919-541-0344, or Dr. James Putney, Chief, Laboratory of Cellular and Molecular Pharmacology, at 919-541-1440. Applications from women or minority groups are particularly welcome. Interested parties should send a curriculum vitae with bibliography and a brief statement of research interest, and should arrange for three letters of recommendation to be sent by September 15 to:

**Norma Daye**
Human Resource Management Branch (HNVi77)
National Institute of Environmental Health Sciences
P. O. Box 12233, Research Triangle Park, NC 27709
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ZymoGenetics, a Seattle-based biotechnology company, currently has a Scientist-level position open in the Protein Chemistry Dept.

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RESEARCH SCIENTIST/POSTDOCTORAL FELLOW. Desire Ph.D. with experience in HIV molecular biology to be a research scientist in a laboratory-based program on the pathogenesis of HIV. Person will be involved in laboratory-based program involved in studies in humans and primates of natural history and immunology of HIV. Experience with PCR, cloning, sequencing and other molecular biologic assays with HIV essential. Contact: Laurence Corey, M.D., University of Washington, c/o Pacific Medical Center, Mail Stop 38260, 1200 12th Avenue South, Room 9301, Seattle, WA 98114. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW RESEARCH INVESTIGATOR

Position available to work on sexual transmission of pathogens using both in vivo and animal models to study the mechanism of transmission of a variety of pathogens, especially HIV, chlamydia, and gonococcus. Ph.D., M.D. or equivalent degree, and experience in molecular biology and experience with small laboratory animals required. Send curriculum vitae and names and addresses of three references to: Dr. David Phillips, The Population Council, Center for Biomedical Research, 1250 York Avenue, Box 273, New York, NY 10021. An Equal Opportunity/Affirmative Action Employer/Men/Female.

POSTDOCTORAL POSITION available immediately to subtype and characterize Helicobacter strains. Helicobacter pylori is a bacterium highly associated with gastroduodenal disease, including peptic ulcer disease and gastric cancer. The position requires at least two years of experience in molecular biology. Knowledge/training in microbial genetics and physiology highly desirable. Send curriculum vitae, names and telephone numbers of three references, and date available to: Dr. F. G. M. D., Baylor College of Medicine & VA Medical Center, (111D), 2002 Holcombe Boulevard, Houston, TX 77030.

RESEARCH ASSOCIATE in Oceanic Data Visualization to manage data visualization, computing, and networking resources of a university ocean modeling research facility. Qualifications: Minimum of a Master’s degree in Computer Science or a related scientific field, with experience in: programming in C, FORTRAN, and assembler, including development of applications for oceanic data visualization and analysis; installing and maintaining Mac, SG1, SUN and IBM PC; IDL, X-Windows; UNIX, Internet and World Wide Web. This is a 12 month continuing non-tenure-carrying position with a minimum annual salary of $30,000. The application deadline is August 16, 1995. Submit résumé by August 16, 1995, to: Job Service of Florida, 2312 Gulf-to-Bay Boulevard, P.O. Box C, Clearwater, FL 34618-4090.

POSTDOCTORAL FELLOW to conduct research on particle deposition in human respiratory tract, through theoretical and experimental analysis of utilizing models and human volunteers. Strong background in aerosol experiments and fluid mechanisms required. Mathematical and numerical modeling ability desired. Send résumé to: Dr. Philip A. Bromberg, Director, University of North Carolina at Chapel Hill Center for Environmental Medicine and Lung Biology, CB No. 7310, Chapel Hill, NC 27599-7310.

A POSTDOCTORAL POSITION is available immediately to study signal transduction and AP-1 binding activity in the regulation of bFGF gene expression. A strong background in biochemistry and molecular biology is required. Please send curriculum vitae and three (3) references to: Yong J. Lee, Ph.D., Department of Radiation Oncology Research Laboratories (163-RST), William S. PANEL Hospital, 3601 West Thirteenth Mile Road, Royal Oak, MI 48073. FAX: 810-551-2443. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available to study the control mechanisms of gene expression and signal transduction of two human cytokines, interleukin (IL)-9 and IL-11. Candidates with background in molecular biology or biochemistry, interested in understanding the role of these growth factors, should send curriculum vitae and addresses of three references to: Dr. Yu-Chung Yang, Departments of Medicine (Hematology/Oncology) and Biochemistry/Molecular Biology, Walther Oncology Center, Indiana University School of Medicine, I5460, 795 West Walnut Street, Indianapolis, IN 46202. Telephone: 317-274-7512; FAX: 317-274-7592.

POSTDOCTORAL POSITION available immediately to study mammalian SIV transmissibility and molecular determinants of tropism in vitro and in vivo. Experience required with molecular biology and pathophysiology of primate retroviruses, primary/transformed cell culture, PCR amplification, and gene/cDNA cloning. Please send curriculum vitae and addresses and telephone numbers of three references to: Dr. Thaddeus G. Golos, Ph.D., Wisconsin Regional Primate Research Center, University of Wisconsin, 1223 Capitol Court, Madison, WI 53715-1299. Email: golos@primate.wisc.edu. Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST/POSTDOCTORAL FELLOW. Desire Ph.D. with experience in HIV molecular biology to be a research scientist in a laboratory-based program on the pathogenesis of HIV. Person will be involved in laboratory-based program involved in studies in humans and primates of natural history and immunology of HIV. Experience with PCR, cloning, sequencing and other molecular biologic assays with HIV essential. Contact: Laurence Corey, M.D., University of Washington, c/o Pacific Medical Center, Mail Stop 38260, 1200 12th Avenue South, Room 9301, Seattle, WA 98114. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

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**HARVARD UNIVERSITY**

**DEPARTMENT OF CHEMISTRY**

**ASSISTANT PROFESSORSHIP IN ORGANIC CHEMISTRY**

Applicants are invited to apply for an assistant professorship in organic chemistry. Applicants should arrange to have three letters of recommendation sent independently and should provide a curriculum vitae, a list of publications and outlines of two future research projects. Applications and supporting materials should be sent no later than 21 October 1995 to Professor Elias J. Corey, Chairman of the Faculty Search Committee, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902. Harvard University is an Affirmative Action, Equal Opportunity Employer and welcomes applications from women and minority group members.

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**Clinical Research Associate/Ph.D.**

The Alfred I. duPont Institute of the Nemours Foundation is a growing, multi-specialty hospital for children. The Department of Clinical Research currently has an opportunity available for a full-time Clinical Research Associate. This research represents a collaboration between the Gastroenterology Research Program and the Laboratory of Epithelial Cell Biology. Current studies will focus on gastrointestinal epithelial function and alterations which occur during the process of inflammation. Candidates should have a Ph.D. degree. Cell culture experience and a background in either inflammation or epithelial function, including electrophysiology, are highly desired. For consideration, please send resume to: Roy Projansky, M.D., Alfred I. duPont Institute, Dept. #7440, P.O. Box 269, Wilmington, DE 19899. FAX: 302-651-5848. Equal Oppty. Employer, M/F.

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**POSTDOCTORAL POSITION IN EXPERIMENTAL ONCOLOGY**

St. Jude Children's Research Hospital

Memphis, Tennessee

Funding is immediately available for one postdoctoral fellow to join an ongoing research program involved in the regulation of intracellular calcium signaling, particularly as it relates to control of the cell cycle and cell proliferation. Successful applicants must have completed a Ph.D. or M.D. degree, and should have extensive experience with molecular biologic techniques. Please send curriculum vitae, a description of research experience, and the names, addresses, and telephone numbers of three references to: Richard Bram, M.D. Ph.D., Department of Experimental Oncology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105 (bram@stjude.org). An Equal Opportunity/Affirmative Action Employer.

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**ENERGYBIOSYSTEMS**

Human Resource Manager
Energy BioSystems Corporation
4200 Research Forest Drive
The Woodlands, Texas 77381

No Phone Calls - EOE
POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS IN SYSTEMS NEUROSCIENCE

Opportunities available to conduct research into the physiological, anatomical and pharmacological bases of pain modulation. Individuals with predoctoral or up to three years of postdoctoral experience in electron microsopy, immunocytochemistry or behavior analysis with a strong background in neuroscience are desired. Ph.D. in Neuroscience, Physiology, Pharmacology or Anatomy required. Mail curriculum vitae and the names, telephone and fax numbers of three references to: Dr. Herbert K. Proudfit, Department of Anatomy, University of Washington, at Chicago, 835 South Wolcott, Chicago, IL 60612. Equal Opportunity Employer.

TWO NEUROBIOLOGY LABS MOVING

Ambitious Postdoctoral Wanted

Positions available in Program Grant Project to study molecular/cellular basis of taste transduction in new labs at University of Miami School of Medicine. Seeking experienced Ph.D.'s: molecular biologist, immunocytochemist, patch clamp electrophysiologist. Applicants (curriculum vitae, experience, three references) to: Dr. Nirupa Chaudhuri or Dr. Stephen Roper, Department of Pharmacology, Biophysics (RAP), P.O. Box 016430, University of Miami School of Medicine, Miami, FL 33101. Inquiries: nchaudhuri@vines.colostate.edu; telephone: 303-491-7286; or roper@lamar.colostate.edu; telephone: 303-491-7808.

POSTDOCTORAL POSITION available to study the molecular and cellular role of opioid receptors in the function and differentiation of T-cells. Studies will include a molecular analysis of the receptor structure and processing. Experience in molecular and/or cellular biology is required. Applicants must be United States citizens or have resident alien status. Please send curriculum vitae and at least three letters of reference to: Dr. Thomas J. Rogers, Department of Microbiology and Immunology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. FAX: 215-707-7788. An Equal Opportunity/Affirmative Action Employer and applications from women and minorities are encouraged.

POSTDOCTORAL POSITIONS available immediately in Biochemical Toxicology to study: (1) colon cancer in a chimeric mouse model using immunocytochemical and molecular techniques (Daniel Rosenberg), and (2) roles and effects of cellular disposal of misfolded and/or mis-regulated antigens in autoimmune diseases (John Morris). Applicants are encouraged to submit summary of experience and names of three references to either investigator at: Department of Pharmaceutical Sciences, School of Pharmacy, Box U-92, University of Connecticut, Storrs, CT 06269-2092. We encourage applications from underrepresented groups including people of color, women and people with disabilities. (Search No. 5A385)

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS MUCOSAL IMMUNOLOGY


POSITIONS OPEN

CYTANIM REGULAR POSTDOCTORAL ASSIGNMENT

The Agriculture Research Center of American Cyanamid Company is seeking an individual for a postdoctoral assignment with our Regulatory Toxics Toxicology team. This position involves review of the range of toxicology studies and research performed in-house and on contract, and respond to regulatory questions involving standard or specific regulations. Send curriculum vitae and references to: Jonathan Braun, Pathology CHS 13-186, UCLA, Los Angeles, CA 90095-1732. FAX: 310-206-5178. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

NIH-funded postdoctoral positions available in two related areas: 1) Protein oxidation and degradation of modified proteins by proteasome, and 2) Regulation of proteasome activity in response to oxidative stress. Both positions require strong training and background in modern methods of Biochemistry and Molecular Biology. You will join a laboratory group of some 16 researchers involved in the above areas, but will have your own project. Our College has great interdisciplinary strength in the areas of oxidative stress, protein degradation, and gene expression, and offers an excellent environment and facilities. Send curriculum vitae and the names of three references to: Prof. Kevin J. A. Davies, Institute of Science and Medicine, The Albany Medical College, Albany, NY 12208. FAX: 518-262-5689.

POSITIONS OPEN

CYPHEROSPIRIDIUM CELL BIOLOGY

POSTDOCTORAL POSITION available September 1995, NIH-funded, to study host alterations during infection. We study pathogens such as C. parvum, Shigella, and E. coli and are seeking to identify the role of OVA, M.D., and Ph.D. students at the Tufts University School of Veterinary Medicine in Grafton, west of Boston. Doctorate and U.S. citizenship or permanent residency required. Send curriculum vitae with three references to: Dr. Jeffrey Griffiths, Department of Comparative Medicine, TUSVM, 200 Westboro Road, Grafton, MA 01545. FAX: 508-859-7977; Email: jgriffiths@opa.tufts.edu.

POSTDOCTORAL POSITIONS

Mayo Clinic and Graduate School

Applications are invited for study of structure and function of molecules related to mechanisms of neurodegeneration. Three positions available immediately: 1) NMR/structural biology of DNA (Gacy et al., Cell, 55:37, 1992); 2) NMR/structural biology of RNA (K Boone et al., Cell, 81:533, 1995); 3) NMR/structural biology of RNA (Ahmed et al., Cell, 81:533, 1995). Send curriculum vitae and reference letters to: Dr. Cynthia T. McCormay, Department of Pharmacology, Mayo Foundation, Rochester, MN 55905. Email: mccmurray@mayo.edu.

Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION—Postdoctoral position available immediately to study the regulation of DNA repair and recombination genes in response to DNA damage and during competence development in Bacillus subtilis. Experience in DNA repair, molecular and/or cellular biology preferred. Candidates should send curriculum vitae and three references to: Dr. Charles M. Lovett, Department of Biological Sciences College of William and Mary, Williamsburg, VA 23187. Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study cell cycle control of myogenic cell proliferation. Specific areas of study include 1) signaling through the transforming growth factor beta receptors; and 2) cell cycle control of myoblast specific genes and proteins. Send curriculum vitae and names of three references to: Edward B. Leof, Ph.D., Gugenheim 642C, Mayo Clinic, Rochester, MN 55905. Telephone: 507-284-5771; FAX: 507-284-4521; Email: leof@mayo.edu. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study genetic and molecular mechanisms regulating cellular proliferation. Experience in DNA repair and recombination genes in response to DNA damage and during competence development in Bacillus subtilis. Experience in DNA repair, molecular and/or cellular biology preferred. Candidates should send curriculum vitae and three references to: Dr. Charles M. Lovett, Department of Biological Sciences College of William and Mary, Williamsburg, VA 23187. Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCH position available immediately to study the role of cell adhesion molecules in tumor invasion of monocyte-macrophage cells and/on HIV-macrophage and cell interactions. Strong background in molecular biology including PCR and/or recombination is preferred. Submit letter, curriculum vitae and three references to: Dr. Ronald Collman, 522 Johnson Pavilion, University of Pennsylvania School of Medicine, Philadelphia, PA 19104. FAX: 215-662-2947; Email: collman@mail.med.upenn.edu.

Cell and Molecular Biology and Cardiovascular Physiologist: PRE- and POSTDOCTORAL positions available. Positions are on an NIH training grant. U.S. citizenship or proof of permanent residency required. Send curriculum vitae, reference letters, and career development plan to: Tadashi Inagami, Ph.D., Department of Biochemistry, Vanderbilt University School of Medicine, Nashville, TN 37232-0146, FAX: 615-343-5852. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study the role of cell adhesion molecules in tumor invasion of monocyte-macrophage cells and/on HIV-macrophage and cell interactions. Strong background in molecular biology including PCR and/or recombination is preferred. Submit letter, curriculum vitae and three references to: Dr. Ronald Collman, 522 Johnson Pavilion, University of Pennsylvania School of Medicine, Philadelphia, PA 19104. FAX: 215-662-2947; Email: collman@mail.med.upenn.edu.

Cell and Molecular Biology and Cardiovascular Physiologist: PRE- and POSTDOCTORAL positions available. Positions are on an NIH training grant. U.S. citizenship or proof of permanent residency required. Send curriculum vitae, reference letters, and career development plan to: Tadashi Inagami, Ph.D., Department of Biochemistry, Vanderbilt University School of Medicine, Nashville, TN 37232-0146, FAX: 615-343-5852. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
**Geneticist-In-Chief**

**DEPARTMENT OF GENETICS**

The Hospital for Sick Children, affiliated with the University of Toronto, is Canada’s largest paediatric medical centre, with 17,000 admissions and 300,000 ambulatory visits per year. Guided by a strategic plan committed to the advancement of education and research, the Hospital’s clinical activities are increasingly focused on tertiary and quaternary care. The Hospital for Sick Children is seeking a Geneticist-In-Chief to head an internationally recognized Department of Genetics. We seek a physician or scientist with a proven leadership record. The successful candidate will provide leadership to a diverse department which includes research laboratories, diagnostic laboratories and clinical genetics responsibilities. The candidate must be eligible for an Appointment as Associate or Full Professor in the Department of Medical Genetics, University of Toronto. We seek a dynamic innovator of senior academic stature to lead the Department into the 21st century. As one of the leading academic paediatric institutions in the world, The Hospital for Sick Children and the Research Institute are committed to the advancement of knowledge through research and education, and to the provision of excellent clinical care.

Interested candidates should forward their curriculum vitae, by October 13, 1995, to: Ms. Christine Welland, Director of Medical Affairs, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, Canada M5G 1X8. Fax: (416) 813-7369. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.

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**Postdoctoral Fellows**

**COLUMBIA UNIVERSITY INSTITUTE OF HUMAN NUTRITION**

Applications for Postdoctoral Fellowships in the Institute of Human Nutrition of Columbia University are available immediately. Specific areas of research are:

- Blaner, William S., Ph.D., Retinoids and vitamin A metabolism.
- Beach, Charles E., Ph.D., Public health intervention.
- Brandt-Rauf, Paul, M.D., Ph.D., Molecular carcinogenesis.
- Deckelbaum, Richard J., M.D., Lipoprotein-receptor-cell interaction; lipid utilization; nuclear genetics of lipid metabolism.
- Ertangar, Bernard F., Ph.D., Biologically significant receptors.
- Field, Michael, M.D., Intestinal ion transport mechanisms.
- Gershon, Michael D., M.D., Enteric nervous system.
- Ginsberg, Henry M., M.D., Regulation of plasma lipoprotein metabolism; regulation of apoprotein B secretion.
- Goldberg, Ira J., M.D., Lipoprotein metabolism, lipolytic enzymes.
- Gutschow, Mark E., M.D., Gene regulation; cancer; thyroid physiology.
- Graziano, Joseph H., Ph.D., Mineral metabolism and toxicology.
- Heymsfield, Steven B., M.D., Body composition and energy expenditures.
- Klasieff, Harry R., Ph.D., Psychology of eating disorders.
- Perera, Frederica, Dr.P.H., Molecular epidemiology.
- Pi-Sunyer, F. Xavier, M.D., Obesity, diabetes mellitus, food intake regulation.
- Schachter, David, M.D., Calcium metabolism.
- Shea, Steven, M.D., Nutritional epidemiology.
- Stern, David M., M.D., Vascular cell biology.
- Tabas, Ira, M.D., Ph.D., Intracellular cholesterol esterification and lipoprotein endocytic pathways in macrophages.
- Tait, Alan R., M.D., Plasma lipoprotein metabolism; regulation of gene expression; molecular nutrition.
- Talmage, David A., Ph.D., Retinoids and their role in regulating signal transduction pathways.
- Weinstein, I., Bernard, M.D., Molecular mechanisms of carcinogenesis.

Positions Available

*Applications for Postdoctoral Fellowships in the Institute of Human Nutrition of Columbia University are available immediately. Specific areas of research are:*
POSTDOCTORAL POSITION TO STUDY MOLECULAR BIOLOGY OF p53

Applications are invited from persons with keen interest in understanding the molecular biology of the tumor suppressor p53. Current focus in the laboratory is understanding the involvement of p53 in transcription and oncogenes. Individuals with expertise in recombinant DNA technology and protein purification are especially encouraged to apply; send complete curriculum vitae and names of three references to: Professor R. M. Nevins, School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA 30332-0405, The Georgia Institute of Technology is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP IN MOLECULAR BIOCHEMISTRY OF FOLATE TRANSPORT

Albert Einstein College of Medicine Cancer Center

Folates are critical to the synthesis of nucleic acids and proteins and to methylation reactions. Folate deficiency is associated with certain diseases and is now implicated in carcinogenic events. New antineoplastic agents are currently being developed and tested that achieve their pharmacologic action by the inhibition of folate utilization.

Training is focused on mechanisms of regulation of transport and metabolism of folates and antifolates at the molecular level. Genes for the major folate transporters have been cloned and selectively expressed in this laboratory. Training is within the context of a collaborating group at the Albert Einstein College of Medicine (AECOM) Cancer Center. Trainees are introduced to concepts in structure-based drug design in the center’s NMR, X-ray crystallography and molecular modeling facilities and to a full range of other cancer center-based technologies that include among others, gene knock out, transgenic, ultrasstructural and other advanced microscopy facilities.

AECOM is located in a residential area adjacent to Westchester County and the Long Island Sound. Stipends are commensurate with living costs in the New York metropolitan area. This position is supported by the Director, AECOM Cancer Center, Jack and Pearl Recknig Campus, 1500 Morris Park Avenue, Bronx, NY 10461. AECOM is an Equal Opportunity Employer.

Applications are accepted immediately for NIH-funded stipends to support research in the laboratory of Dr. James Christianson, Baylor College of Medicine, 1995 Huffman Street, Houston, TX 77030. FAX: 713-798-3475.

BLAUSTEIN POSTDOCTORAL FELLOWSHIP

The Jacob Blaustein International Center for Desert Studies

A TWO-YEAR FELLOWSHIP, to be taken up on October 1, 1996, is available for basic or applied research in the fields of desert biology and related disciplines. Applicants should send curriculum vitae plus the names of three references to: Professor David W. Christianson, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323, Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH

Molecular Pharmacologist-

Three-year position available August 1, 1995, for an individual to carry out molecular studies in the field of immunoneuropharmacology. Candidates must have a Ph.D. in pharmacology, immunology, molecular cloning, DNA sequencing, and in situ hybridization. Knowledge of neuronal-glial interactions a plus. Competitive salary and benefits. Send letter of application to: Dr. Charles Blaustein, Minneapolis Medical Research Foundation (MMRF) by: 612-337-7372, or mail: 914 South 8th Street, D-3, Minneapolis, MN 55404. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN BIOCHEMICAL FOSSILS OF FOSE TRANSPORT

Applications are invited for a position in the laboratory of Dr. David Christianson at the Albert Einstein College of Medicine, Bronx, New York. The Laboratory, which is supported by the NIH, is involved in studies of folate transport and metabolism. This position is available immediately. Applicants are expected to have a Ph.D. in Biochemistry or a related field. The successful candidate will be expected to develop a research program in the area of folate transport and metabolism. Salary will be commensurate with experience. For further information, please contact Dr. Christianson at 1-718-431-4000. The Albert Einstein College of Medicine is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN BIOCHEMISTRY

Applications are invited for a Postdoctoral fellow to join a laboratory investigating the biochemical aspects of folate transport. The candidate will be expected to develop an independent research program in this field. Salary will be commensurate with experience and background. Applications should be addressed to: Dr. M. S. Christianson, Albert Einstein College of Medicine, 1995 Huffman Street, Houston, TX 77030. FAX: 713-798-3475.

DEPARTMENT OF PALEOBIOLOGY

NATIONAL MUSEUM OF NATURAL HISTORY SMITHSONIAN INSTITUTION

The Department of Paleobiology invites applications for the position of RESEARCH PALEONTOLOGIST. Applicants must have a Ph.D. or equivalent experience. Preference will be given to those showing evidence of a continuing commitment to a strong and innovative program of independent and collaborative research that uses data from fossil specimens to approach questions of broad paleobiologic significance. In addition to these general requirements, a special emphasis will be given to those who can demonstrate a clear knowledge of, and capability for, the application of new paleobiologic techniques. Applications are encouraged from persons interested in any aspect of paleobiology, but particularly in the study of the major paleontological problems of the Mesozoic and Cenozoic. Salary is commensurate with experience and depends on qualifications.

Applications must be postmarked by October 16, 1995. For further information, please contact: Dr. R. W. Cladis, Department of Paleobiology, National Museum of Natural History, Smithsonian Institution, Washington, D.C. 20560. The Smithsonian Institution is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP

Pharmacological modulation of growth-regulatory proteins (oncogenic and tumor suppressor gene products) associated with growth arrest and cell death in breast cancer cells. A strong background in molecular biological methods is required. Applicants must be U.S. citizens or permanent residents. Salary: $41,104 to $57,700 per annum depending on qualifications.


DEPARTMENT OF PATHOLOGY

POSTDOCTORAL FELLOWSHIP

Applications are invited for a Postdoctoral position to study the role of the chromosome 11q23 breakpoint region in the regulation of cell proliferation. The candidate should have completed a Ph.D. in biochemistry or a related area at the time of appointment. Salary will be commensurate with experience and background. Applications should be addressed to: Dr. M. S. Christianson, Albert Einstein College of Medicine, 1995 Huffman Street, Houston, TX 77030. FAX: 713-798-3475.

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DEPARTMENT OF PATHOLOGY

PREDOCTORAL AND POSTDOCTORAL TRAINEES

Biological Basis of Aging and Alzheimer’s Disease

University of Washington

Applications are invited for participation in genetic, cellular and molecular research supported by an NIH Training Grant, an Alzheimer’s Disease Research Center, a program-project on proliferative hematopoiesis, and genetic research projects utilizing various organisms. Graduate sponsorship via an interdisciplinary cellular molecular biology program or individual departments. Applicants must be U.S. citizens or permanent residents.

Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY

Applications are invited for a Postdoctoral position in molecular biology. The candidate should have completed a Ph.D. in molecular biology or a related area at the time of appointment. Salary will be commensurate with experience and background. Applications should be addressed to: Dr. M. S. Christianson, Albert Einstein College of Medicine, 1995 Huffman Street, Houston, TX 77030. FAX: 713-798-3475.

DEPARTMENT OF PATHOLOGY

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DEPARTMENT OF PATHOLOGY

PREDOCTORAL AND POSTDOCTORAL TRAINEES

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Equal Opportunity/Affirmative Action Employer.
Tenure-Track And Postdoctoral Opportunities.

The following research training opportunities are currently available at the National Institutes of Health.

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**Tenure-Track Position**

**Assistant Professor Equivalent**

**Molecular Mechanisms of Respiratory Diseases**
Paul Nettesheim, MD

A position is available to develop an independent research program, supported by intramural funds, in cellular and molecular mechanisms of respiratory biology and diseases. Extensive postdoctoral experience in molecular biology, developmental biology, signal transduction or biochemical mechanisms of inflammation is required. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Laboratory of Pulmonary Pathobiology (OE-92), NIEHS, P.O. Box 12233, MD D2-01, Research Triangle Park, NC 27709.

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**Postdoctoral Positions**

**Basic Aspects of Gene Therapy**
Jeff L. Miller, PhD

A position is available to join a laboratory investigating molecular, biochemical and biological aspects of transferring functional genes into cells. Current studies involve the regulated expression of globin genes and glycosylphosphatidylinositol (GPI) anchored cellular receptors using adenov-associated virus (AAV) vectors. A strong background in molecular genetics, membrane biochemistry, or immunology is required. Laboratory of Chemical Biology (OE-92), NIDDK, Building 10, Room 9N307, 10 CENTER DR MSC 1822, BETHESDA MD 20892-1822.

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**GTPases and the Actin Cytoskeleton**
Julie G. Donaldson, PhD

A position is available to study the role of the ARF6 GTP binding protein in regulating cell morphology and the actin cytoskeleton. Combined biochemical, molecular and cellular approaches will be used to identify regulators of and effector functions for the ARF6 protein in mammalian cells. Candidates should have less than five years of postdoctoral experience. Laboratory of Cell Biology (OE-92), NHLBI, Building 3, Room B1-22, CENTER DRIVE MSC 0301, BETHESDA MD 20892-0301.

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**Ion Channel Physiology and Modulation**
Jerrel L. Yakel, PhD

Ligand-gated (serotonin 5-HT, and glutamate) and voltage gated calcium channels are studied in neurons and cell lines, as well as channels expressed in mammalian cells or Xenopus oocytes. Structure-function aspects of these channels are investigated, as well as how intracellular signal transduction pathways modulate the physiological properties of these channels. Applicants must have electrophysiological (preferably patch-clamp) experience and less than five years postdoctoral training. Molecular biological techniques would be a great asset. Laboratory of Cellular and Molecular Pharmacology (OE-92), NIEHS, 19-04, P.O. Box 12233, Research Triangle Park, NC 27709.

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**Insulin Signal Transduction and Hypertension**
Michael J. Quon, MD, PhD

Relationships between insulin action, insulin resistance and hypertension are being studied at a molecular level. Differential display and other subtraction cloning methods are being used to identify novel insulin-regulated genes in vascular endothelium that may link insulin signal transduction pathways to the pathogenesis of hypertension. Strong background in molecular biology and/or cell biology preferred. Applicants must have less than five years of postdoctoral experience. Hypertension Endocrine Branch (OE-92), NHLBI, Building 10, Room 8C-105, 10 CENTER DR MSC 1754, BETHESDA MD 20892-1754.

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**Neuronal Development**
Elaine A. Neale, PhD

The role of electrical activity in the development of axon outgrowth, dendrite branching, and synapse formation is under study. Electrically active and quiescent neurons in cell culture are examined using immunohistochemistry, image analysis and electron microscopy. Applicants should have a background in neuronal morphology and cell biology and must have less than five years of postdoctoral experience. Laboratory of Developmental Neurobiology (OE-92), NICHD, Building 49, Room 5A38, 40 CONVENT DR MS 4480, BETHESDA MD 20892-4480.

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**Regulation and Function of Unconventional Myosins**
Edward D. Korn, PhD

A position is available to study the molecular mechanisms for regulation of unconventional myosins by covalent modifications and the biological roles of unconventional myosins, with particular emphasis at this time on the myosin I and myosin II families and myosin-specific kinases. Approaches used include molecular biology, biochemistry and enzymology, cell biology and immunocytochemistry. Applicants with less than five years of postdoctoral experience are preferred. Laboratory of Cell Biology (OE-92), NHLBI, Building 3, Room B1-22, 3 CENTER DR MSC 0301, BETHESDA MD 20892-0301.

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**Additional Opportunities**

The NIHEDNET Bulletin Board POSTDOC (fellowship positions) and TENURE (tenure track positions) conferences are accessed via a modem (301-402-2221 or 800-358-2221) with parameters set at 7, Eeven, 1) or the Internet using Telnet (uglylber.cu.nih.gov) or the World Wide Web (URL: telnet:uglylber.cu.nih.gov). When connected to NIH, key in｀pt100 for terminal emulation, F5E for initials, and AJLI for account number. To view tenure track positions, quit the POSTDOC conference and join the TENURE conference.

An electronic version of the Postdoctoral Research Fellowship Opportunities catalog is accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (URL: http://www.nih.gov). When connected with Gopher, select Grants and Research Information and then NIH Office of Education. When connected with WWW, select Grants and Contracts and then NIH Office of Education. If you have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, Phone 301-496-2427, Fax 301-402-0483.

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**To Apply**

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (MD, DO, DDS, DMD or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
The Office of Naval Research (ONR) is seeking a qualified individual to manage sponsored basic/applied research together with exploratory and advanced development programs and projects in the areas of mine countermeasures and associated environmental effects. The sponsored research is conducted primarily at U.S. universities and industrial or Federal laboratories. This is a Civil Service position at the GS-14/15 level ($57,760-$88,326 plus a 5.45% locality adjustment), depending on individual qualifications.

As Program Officer in mine countermeasures, the incumbent plans, evaluates, directs, and coordinates broad science and technology projects essential to the Navy and Department of Defense. The incumbent will conceive, organize, and direct research and development programs in the broad areas of mine countermeasures and associated environmental effects pertaining to Navy problems and applications. Specific technical and programmatic fields or applications include, but are not limited to: underwater sensors, weapons, and vehicles; explosives and warheads; modeling and simulation; communications technologies, and ocean environmental sciences.

Applicants must have a degree in physics, chemistry, professional engineering, mathematics, or closely allied physical science area relating to mine countermeasures and associated environmental effects and 1 year of specialized experience directly relevant to the program area described above. Qualifying experience must have been at a level of difficulty and responsibility equivalent to that of the next lower grade level in the Federal Service. A Ph.D. and demonstrated research and/or technology development experience is desired.

All applicants have a choice of submitting either a new Optional Application for Federal Employment (OF-612); a resume; or any other written format including the old SF-171 (application for Federal Employment). If you submit a resume or any other written format other than the OF-612 or SF-171, you must include: the announcement number; full name and mailing address; social security number; country of citizenship; veteran’s preference; reinstatement eligibility; highest Federal civilian grade held; name and location of your high school, date of diploma or GED; name and location of your college or university, your major, and type and year of any degrees received. Only include work experience directly related to this position. For the work experience section, include the job title, duties and accomplishments, employers; names and addresses, supervisors’ names and phone numbers, starting and ending dates, hours per week, salary, and whether you may contact your current supervisor. You should also include any job-related training courses, skills, certificates and licenses, and awards.

Applicants should submit their application and the supplemental forms by the closing date; however, applications postmarked by the closing date will be accepted. Applicants may lose consideration if information necessary to determine minimum qualifications is not submitted. Applicants will not be contacted to determine minimum qualifications. Interested persons should submit their application, supplemental forms, and a list of submitted or presented publications or papers to: ONR, Satellite Human Research Facility, Room 4316, Code CEI, 800 North Quincy Street, Arlington, VA 22217-5560. Applications will be accepted through 17 August 1995 and should be received by that date. Applicants are requested to complete the appropriate supplemental forms. For information about this vacancy and to receive a copy of the vacancy announcement and supplemental forms, applicants may contact Val Mouzon at 703-696-4163 or Angelica Ashby, 703-696-4449, or our IDD (Telecommunications Device for the Deaf) number, 703-696-2681. For technical information concerning this vacancy, call Doug Todaroff at 703-696-6518.

U.S. CITIZENSHIP REQUIRED AN EQUAL OPPORTUNITY EMPLOYER

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The Department of Veterans Affairs (VA) invites applications for the position of Associate Chief Medical Director for Research and Development. The Office of Research and Development currently has an appropriated budget of approximately $250 million and supports biomedical, health services, and rehabilitation research of more than 2,500 VA scientists, more than 70 percent of whom are physicians. In addition, VA scientists receive more than $274 million in research support from extra-VA sources, such as the National Institutes of Health.

VA’s research program is strongly committed to support of patient-oriented research across the entire spectrum from basic science to clinical applications of new knowledge. The incumbent is responsible for policy development, management of peer review of all investigator-initiated research studies and budget formulation and distribution. He/she will have overall responsibility for the managerial and scientific aspects for a program of medical care, prosthetic, rehabilitation and health services research of approximately $900 million. The individual selected will have a critical role in the organizational restructuring of this program. To qualify, you must have both strong scientific and managerial backgrounds, and hold an M.D. or earned Ph.D. Salary is $108,000 for non-clinicians, and $122,759 to $173,259 for physicians and dentists.

If you are qualified, you are invited to send a curriculum vitae by September 8, 1995 to: Management Support Office (163), 810 Vermont Avenue, N.W., Washington, DC 20420. For further information, call (202) 565-7616. The Department of Veterans Affairs is an Equal Opportunity Employer.
ASSISTANT PROFESSOR
CELL OR MOLECULAR BIOLOGY

Division of Plastic Surgery
Northwestern University Medical School

Northwestern University Medical School seeks a full-time, non-tenure eligible faculty member to join a laboratory actively investigating wound healing. The appointment will be at the rank of Assistant Professor in the Department of Surgery with a joint appointment in the Department of Cell, Molecular and Structural Biology, and the desired start date is the fall of 1995. Applicants should have research interests in the basic cellular and molecular mechanisms of wound formation and wound repair. The laboratory is particularly interested in the signal transduction pathways which may be altered in aged and/or hypoxic cells. Applicants must hold a Ph.D. and have research experience in a related area. The successful applicant would be expected to integrate work with the wound healing group and subsequently develop an independent research program. Funding will be available for a period of three years. Hiring is contingent upon eligibility to work in the United States.

Candidates should submit a curriculum vitae a brief statement of research interests and future plans, copies of three recent publications, and three professional references to:

Thomas A. Mustoe, M.D.
Professor of Surgery
Division of Plastic and Reconstructive Surgery
707 N. Fairbanks Court, Suite 811
Chicago, IL 60611

Northwestern University is an Affirmative Action / Equal Opportunity employer.

Director, Cooperative Extension
Service and Associate Dean,
College of Agriculture
University of Wyoming

Director’s responsibilities include program development, evaluation, prioritization and implementation; budget development; commitment to excellence in outreach. Substantial experience in strategic planning, budget development and management and personnel administration is necessary.

A master’s degree in a relevant subject matter area is required; a doctorate is preferred. We are seeking an individual who is committed to the CES mission and innovative in implementing a university-wide cooperative approach to outreach education.

Complete applications must be postmarked by October 1, 1995. Contact Associate Provost Judy Powell, P.O. Box 3302, University of Wyoming, Laramie, WY 82071-3302 for complete position announcement and additional information. Phone: 307-766-3006, Fax: 307-766-2606, E-mail: jpowell@uwyo.edu

The University of Wyoming is an equal opportunity/affirmative action institution.

The Procter & Gamble Company has an immediate opening for a Ph.D. scientist to work at our Miami Valley Laboratories in Cincinnati, Ohio.

- The successful candidate will use cell and tissue culture techniques to investigate cell-cell signaling events, determine the mechanism of action of drugs, and develop screening assays. Experience with stem cell isolation and culture, and immunological and molecular methods is highly desirable. Applicants should have a Ph.D. in cell biology or related discipline and 2-4 years of postdoctoral experience.

Procter & Gamble is a world leader in the research, development, manufacture, and marketing of a wide variety of consumer products in health and beauty care, cosmetics and fragrances, pharmaceuticals, food and beverage, laundry and cleaning, and paper products. Annual worldwide sales exceed $30 billion and our annual R&D investment is over $1 billion. P&G offers a competitive salary and benefits package, placing us among the top 5% of U.S. firms.

To apply for this opening or to be considered for future opportunities, send your resume suitable for scanning into our database (i.e., clean/clear, no graphics, and preferably unfolded) along with a letter of introduction and list of publications to:

Dr. J.J. Shulman • The Procter & Gamble Company
R&D Technical Recruiting • Dept. MEB2
P.O. Box 538707 • Cincinnati, Ohio 45253-8707

No agency referrals, please.
An Equal Opportunity Employer.

Herpes 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 on many aspects of virology and immunology of infectious diseases including immune modulators, hematopoietic cytokines, stromal cell biology, viral pathogenesis and the discovery of novel anti-viral compounds.

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 herpes viruses. The candidate will apply virological, molecular, biochemical skills to identify viral molecular targets, explore mechanisms of anti-viral drug action and select lead compounds as the virologist of a multi-discipline team. Results of this work will be presented at scientific meetings.

Qualified candidates will have a Ph.D. in Virology, a minimum of 3 to 5 years postdoctoral experience in herpes virology and an excellent record of scientific achievement as evident from publications, patents, symposia and presentations. Supervisory experience, excellent communication skills, and the ability to work effectively with individuals of varied backgrounds and disciplines are required.

Based in our modern research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits packages, as well as a stimulating work environment. For confidential consideration, please send CV with salary requirements to: SmithKline Beecham Pharmaceuticals, Job # L0233, PO Box 2648, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.
Faculty Positions in Immunology
University of Pennsylvania School of Medicine
Institute for Human Gene Therapy

We invite applications for Assistant Professor level tenure-track faculty positions at the University of Pennsylvania School of Medicine. The successful applicant will be a member of the Institute for Human Gene Therapy which emphasizes several primary research areas such as immunology, stem cell biology, cancer biology, genetics, and ion transport. This individual will be appointed to a faculty position in either a basic science or clinical department, and should have the ability to develop an independent research initiative within our immunology program, a major basic science focus of the Institute. Areas of particular interest include lymphoid development and activation, tolerance induction, programmed cell death, and cytokine gene regulation.

Applicants must have either a Ph.D. or M.D. degree and show exceptional promise of establishing a vigorous, independent research program in an academic setting. A letter, C.V. and a statement of research interests should be addressed to:

James M. Wilson, M.D., Ph.D.
Director, Institute for Human Gene Therapy
University of Pennsylvania Medical Center
3400 Spruce Street (M6. 40 Maloney)
Philadelphia, PA 19104-4283

Equal Opportunity/Affirmative Action Employer.
We encourage minority and women candidates.

DEAN
Tufts University School of Veterinary Medicine

Tufts University seeks a dynamic Dean for its School of Veterinary Medicine. Just sixteen years old, the School has already distinguished itself with innovative programs in biotechnology, wildlife medicine, equine sports medicine, international veterinary medicine, ethics and values, oncology, infectious disease, animal behavior, and medical imaging. Tufts has emerged as one of the most selective veterinary schools in the U.S., with the highest number of applicants per space for the most recent year’s entering class.

The next Dean must have the D.V.M. or equivalent, an entrepreneurial bent, significant administrative experience, fundraising achievement or potential, and a broad understanding of the social setting of modern veterinary medicine. Also among his or her achievements will be knowledge of current issues in veterinary education, a distinguished record of scholarly work, and an understanding of biotechnology and the biotechnology industry.

Tufts University, established in 1852, also operates distinguished schools of medicine and dental medicine, a graduate school of nutrition, and a nutrition research center, as well as a school of law and diplomacy and the colleges of arts and sciences, in greater Boston. The veterinary school’s programs are based on a 640-acre campus in a pristine New England setting in North Grafton, Massachusetts, thirty miles west of Boston, and also on the Health Sciences Campus in Boston.

An extremely attractive compensation package, and the possibility of an endowed chair, accompany this position.

Applications and nominations should be sent to:
Provost/Senior Vice President Sol Gittleman
c/o TUSVM
200 Westboro Road
N. Grafton, MA 01536

The position will be filled when the appropriate individual is identified.

Tufts University is an AA/EEO employer. Applications from women and minority candidates are especially encouraged.

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Center for Structural Biology

FACULTY POSITIONS: NUCLEAR MAGNETIC RESONANCE

The Center for Structural Biology of the College of Medicine, University of Florida currently has an opening for a faculty member conducting innovative research emphasizing nuclear magnetic resonance. The Center is associated with the National High Magnetic Field Laboratory (NHMFL), which is jointly run by Florida State University, the University of Florida, and the Los Alamos National Lab. The Center is an interdisciplinary program with emphasis on understanding of biological function by determining high-resolution structures of large biological molecules and assemblies, studying cell structure and function, and the morphology and physiology of the whole organism. Within the Center, advanced spectroscopic, diffraction, and imaging techniques (nuclear magnetic resonance, optical microscopy, and electron microscopy; X-ray crystallography is being planned) are used to derive molecular-based information related to cellular, tissue, and organism-level structure and function. The Center houses NMR spectrometers (Varian Unity 300 and Unity 600) used for macromolecular structure determination and microscopy. In addition, Center faculty use prototype magnets and spectrometers located at the NHMFL Tallahassee site, including a wide-bore 600 MHz and a 720 MHz high-resolution spectrometer, with additional magnet systems under development for operation at higher fields.

The Center wishes to recruit a macromolecular high-resolution NMR spectroscopist. Interested persons are invited to apply for this tenure-track faculty position, at any level, with direct association to the National High Magnetic Field Laboratory. Applicants at the assistant professor level need extensive experience with NMR at the post-doctoral or more advanced level with interest in developing and expanding experimental techniques. In addition, applicants at the associate or full professor level need to have an established program with extramural funding. Successful candidates will conduct innovative research emphasizing NMR and will use the facilities of the Center for Structural Biology, with additional support provided through the facilities of the NHMFL.

Opportunities exist for collaborative research in areas such as biochemistry, cell biology, pharmacology, or physiology.

Applicants must have a Ph.D. Degree and a minimum 1 year postdoctoral experience. Submit a C.V. with statement of research interests and three letters of reference by September 15, 1995. Anticipated starting date January 1, 1996. Salary commensurate with experience. All correspondence should be sent to Thomas H. Mareci, Ph.D., Director, Center for Structural Biology, College of Medicine, University of Florida, Box 100245, Gainesville, FL 32610-0245. The University of Florida is an Affirmative Action-Equal Opportunity employer, and applications from minorities and women are strongly encouraged. Gainesville is an attractive University community in North-central Florida with good low-cost housing, quality public schools, and many outdoor activities.

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GLOBAL CAREER OPPORTUNITIES

Research Professor Position
Hallym University

Institute of Environment & Life Science, Hallym Academy of Sciences, Hallym University has several research professor positions (assistant professor level) available to conduct biomedical research in an academic environment from October 1995. Candidates should have a Ph.D., M.D., or M.D./Ph.D. with at least 2 years of postdoctoral experience. Applicants with expertise in Biochemistry (Enzymology), Virology, Cellular Immunology, or Molecular Neurobiology are preferred. In order to apply, applicants should submit a curriculum vitae, a brief description of research experience and plan, official transcripts of undergraduate and graduate school, and two letters of recommendation to: Dr. Woo-Tack Kim, Managing Director, Hallym Academy of Sciences, Hallym University, 1 Okchon-dong, Chuunchon, Kangwon-do, 200-702, Korea. Applications should be submitted by August 26, 1995.

국제적인 생명과학연구센터를 지향하는
한림대학교 한림과학원 부설 환경 생명과학연구관은 생명과학을 이론적으로 연구하셔서 성장과 평가가 필요합니다.

[82-561-58-1950, Fax: 82-561-241-3422]
The successful candidate will be given the freedom to develop professionally and individually and to attain mutually agreed goals.

**Clinical Research Inflammation Bone & Allergy**

Your main task will be the planning and managing of the clinical research component of Intern, Development Projects for new drugs in the IBA area. As a member of Clinical Teams you will contribute substantially to the development of overall strategy and objectives within a project; at the same time you will be responsible for the preparation of Clinical Research documents and manuscripts for publication.

We expect you to have a life science degree and at least two years of experience in the Clinical Research Department of a multinational pharmaceutical company ideally in the field of asthma therapy and/or immunology. Your English should be excellent and you should be familiar with computer software generally used in the office.

Send your application to Ciba-Geigy Ltd., Att. Mr. S. Jäggi, Ref. 14540, P.O. Box, CH-4002 Basel.
SIBIA is expanding its interdisciplinary research and development on therapeutics for diseases of the central nervous system. We have established an impressive record in the development of innovative technologies important to the field of neuroscience and the biopharmaceutical industry. We are now seeking experienced scientists to increase our drug discovery efforts for the neuropharmaceuticals of the future!

HEAD, MOLECULAR NEUROBIOLOGY LABORATORY
This position requires an established molecular neuroscientist with broad-based experience in the molecular biology of voltage- and/or ligand-gated ion channels. Experience in the use of recombinant DNA techniques to isolate, characterize, and express genes encoding ion channels in mammalian cells is essential. The candidate will be expected to manage and direct an established research laboratory, and must have exceptional oral and written communication skills. Requirements include a Ph.D. in Molecular Biology or Molecular Neuroscience with a minimum of 5-8 years of post-doctoral experience.

SYNTHETIC CHEMISTRY
We are seeking a Ph.D.-level Chemist to join our drug discovery team. Candidates possessing experience in the design of enzyme inhibitors and specifically protease inhibitors, in addition to a strong synthetic chemistry background are preferred. Additional experience in combinatorial chemistry and/or molecular modeling would be desirable. Candidates with 0-5 post-doctoral experience and a strong publication record are encouraged to apply.

BIOCHEMICAL PHARMACOLOGY
The Ph.D. we seek will have 0-5 years of post-doctoral experience in in vivo biochemical/pharmacological analysis of central nervous system-acting drugs. A strong neuroanatomical background is required along with experience in the study of in vivo effects of enzyme inhibitors.

BIOCHEMISTRY/PROTEIN CHEMISTRY
We invite Ph.D.s with 0-5 years of post-doctoral experience in the development of mammalian cell-based immunoassays and their adaptation to high throughput screening to respond. In addition to a strong biochemical background, experience in mammalian cell culture and protein/peptide analytical techniques would be highly desirable.

Located on San Diego's beautiful La Jolla coastline, SIBIA offers not only a challenging environment in an aesthetic setting, but also a competitive salary and benefits package. Send your C.V. with names of three references to: Lynn Alba, SIBIA, 505 Coast Blvd., South, Suite 300, La Jolla, CA 92037, fax to: (619) 452-9279. EOE.

Michigan State University invites applications and nominations for the position of Dean of the College of Natural Science. Michigan State University, a premier land grant institution and a member of the Association of American Universities, has a student enrollment of approximately 40,000 and is located in an urban-rural setting adjacent to Lansing, the State capital. The University has 14 colleges plus two academic administrative programs in international studies and urban affairs led by deans.

The College of Natural Science consists of 19 academic units and programs in the physical, biological and mathematical sciences, as well as the MSU/DOE Plant Research Laboratory, Kellogg Biological Laboratory, Center for Fundamental Materials Research, Center for Microbial Ecology, Pesticide Research Center, Center for Electron Optics, and the Center for Integrative Studies. The College provides instruction in the natural sciences for all University undergraduates and offers programs of study leading to the B.A., B.S., M.A., M.S., M.A.T., and Ph.D. degrees. Currently, the college consists of about 350 tenure stream faculty and 5,300 majors, about 80 percent at the undergraduate level and about 20 percent at the graduate level. The Dean is the chief academic officer of the college and reports directly to the Provost.

QUALIFICATIONS
MSU is seeking individuals who have demonstrated strong accomplishment in scientific research, strong leadership in administration and education, effective interpersonal skills and a commitment to excellence in natural science teaching, research and service programs. An earned doctorate in a field related to programs of the college is required. Candidates must meet standards for appointment at the rank of professor (with tenure) in an academic department in the college.

SALARY
Salary is competitive and commensurate with experience and qualifications.

APPLICATIONS/NOMINATIONS
Applications/nominations should be submitted as soon as possible and preferably by October 1, 1995. Applications/nominations submitted later will be given all possible consideration, depending on the status of the search process. Women and minority applications/nominations are encouraged. Handicappers have the right to request and receive reasonable accommodation. Nominations or letter of application with curriculum vitae should be sent to:

Dr. William Deal, Chairperson, Search and Rating Committee
Dean, College of Natural Science
Office of the Provost
Michigan State University
312 Administration Bldg.
East Lansing, MI 48824-1046
Telephone Inquiry: (517) 353-8949
FAX: (517) 353-9334; Email: dealw@pilot.msu.edu

Michigan State University is an Affirmative Action/Equal Opportunity Institution
**Principal Scientist Metabolic Diseases**

Wyeth-Ayerst Research, a major division of Fortune 130 American Home Products Corporation, has an immediate opportunity for a Principal Scientist in Metabolic Diseases at its pharmaceutical research and development facility in Princeton, New Jersey.

You will focus on the identification of new molecular and cellular targets for pharmacologic intervention in obesity. This will involve interaction and collaboration with other investigators in the Metabolic Diseases group in the development of novel targets and drugs.

Requirements include a strong fundamental knowledge of molecular and cell biology and research experience in obesity, or a closely related and relevant research area. A doctoral degree and post-doctoral research experience in a relevant research area are expected. Knowledge and research experience in diabetes and insulin resistance are pluses.

Wyeth-Ayerst offers competitive salaries and excellent benefits. Please forward resume with cover and salary requirements to: Wyeth-Ayerst Research, Human Resources, Position #1349, CN 8000, Princeton, NJ 08543-8000. Or you may fax your resume directly into our centralized Research resume database at (610) 989-4854. Principals only. Equal Opportunity Employer, M/F/D/V.

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**Naval Surface Warfare Center Carderock Division**

**Distinguished Research Physicist**

(ST-1310-00)

The selectee will set the standard for mature research in the area of advanced polymer materials with special application to special acoustic coatings, working in the Weapons Materials Department of the Survivability, Structures and Materials Directorate. He/she must have achieved an internationally recognized level of excellence in the area of polymer science. Scientific contributions must include solving significant Navy problems.

Except under extraordinary circumstances, the selectee must have earned a Ph.D.

Salary: $97,991 to $113,180

Duty Station: White Oak, Maryland and Carderock, Maryland sites.

For further job information:

Call (301) 227-2880, or send resumes to Code 3210, Carderock Division, Naval Surface Warfare Center, Bethesda, MD 20084-5000.

Applications must be received or postmarked by 11/15/95.

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**DEAN**

School of Natural Resources and Environment
The University of Michigan

The University of Michigan invites applications and nominations for the position of Dean of the School of Natural Resources and Environment. This position will be available on July 1, 1996. The Dean is the chief academic and administrative officer of the School and reports directly to the Provost and Executive Vice President for Academic Affairs. The School of Natural Resources and Environment is an interdisciplinary professional school focusing on research, teaching, service and the development of policies and management programs leading to the conservation, protection, and sustainable use of natural resources. The School's activities include instruction at the undergraduate, masters, and doctoral levels, and an active research program. Diverse faculty concentrations include Resource Ecology and Management, Resource Policy and Behavior, and Landscape Architecture. The School is committed to an integrative interdisciplinary approach to problem-solving in active collaboration with related disciplinary departments and professional schools.

The Dean provides leadership in academic program planning, development and evaluation. Qualifications should include an earned doctorate, a distinguished record appropriate for a tenured appointment in the School. The Dean must provide leadership for the School both within and external to the University community as well as for seeking and securing funds from a variety of sources.

Applications and nominations should include a detailed curriculum vita and the names, addresses, and telephone numbers of three references. While applications will be considered until the position is filled, the Committee will begin reviewing applications on October 15, 1995. The University's dedication to excellence is complemented by its commitment to building a culturally diverse academic community. Individuals from underrepresented groups are encouraged to apply.

Nominations and applications should be directed to Jonathan W. Bulkeley, Chair, School of Natural Resources and Environment Dean Search Advisory Committee, The University of Michigan, 3068 Fleming Administration Building, Ann Arbor, MI 48109-1340, Telephone, 313 449-2955, FAX, 313 764-4546.

A non-discriminatory, affirmative action employer.
OREGON HEALTH SCIENCES UNIVERSITY
BIOCHEMISTRY & MOLECULAR BIOLOGY

MOLECULAR ENZYMOLOGY

The Department of Biochemistry and Molecular Biology at OHSU, School of Medicine, is committed to a period of significant expansion. We are recruiting tenure track faculty at all levels, although our emphasis is on junior colleagues. We wish to recruit biochemists whose primary interest is in investigating the mechanisms of enzyme catalysis employing modern molecular techniques.

We will offer attractive start-up packages, competitive salaries, and the opportunity to participate in the growth and development of a dynamic and interactive department in a highly desirable location. Faculty will be expected to establish competitive research programs and assist in graduate and medical school teaching. Applicants at the Assistant Professor level should have a Ph.D. with several years of postdoctoral experience. Applications for our first series of appointments should be received by September 30, 1995.

Interested applicants should send a copy of their curriculum vitae, a description of their research plans and interests, and the names of three references to:

Professor Jack H. Kaplan, F.R.S.
Faculty Search (ME)
Department of Biochemistry and Molecular Biology
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road, L224
Portland, OR 97201-3098

OHSU is an Affirmative Action/Equal Opportunity Employer

Emerging Infectious Diseases (EID) Laboratory Training and Research Fellowships
CDC - ASTPHLD

Administered by the National Centers for Infectious Disease, NCID/CDC, and the Association of State and Territorial Public Health Laboratory Directors, ASTPHLD. This two-track program (Training and Research) will train qualified candidates to support public health initiatives, and provide opportunities for doctoral level scientists to conduct high priority infectious disease research in local, state or federal (CDC) public health laboratories. Applicants must be U.S. citizens and able to start appointments by January 5, 1996.

Training Fellowship: A one-year program designed for bachelors or masters level scientists, with emphasis on the practical application of technologies, methodologies and practices related to emerging infectious diseases. The training will be customized for each Fellow based upon infectious disease areas of interest, high priority laboratory personnel needs, and host laboratory capabilities. Training will focus on one/two areas such as: variable/evolving resistance, drug-resistant pathogens, molecular methods, vector-borne or zoonotic diseases, foodborne/waterborne illnesses, sexually transmitted diseases, computer and systems support, and diagnostic testing methods. The annual stipend is $20,000 (plus health benefits) which may be augmented by the host public health laboratory.

Post-Doctoral Research Fellowship: A two-year program designed for doctoral level (Ph.D., M.D., D.V.M.) scientists with an emphasis on research or development in infectious diseases. Fellowships will be awarded to conduct applied research or development in areas relevant to public health including: development and evaluation of diagnostic techniques, antimicrobial sensitivity and assessment of mechanisms of resistance, principles and practices of vector or animal control, improved methodologies for environment sampling, testing and evaluation. The annual stipend is $30,000 (plus health benefits). Application Deadline: October 5, 1995.

For further information and application materials contact: EID Laboratory Fellowship Program, ASTPHLD, 1211 Connecticut Avenue, N.W., Suite 608, Washington, D.C. 20036, Phone: 202-822-5227, Fax: 202-887-5098

Department of Dermatology
Harvard Medical School

The Department of Dermatology, Harvard Medical School is accepting applications for clinical and research post-doctoral fellowship positions, and for entry level faculty positions. Basic research fellowship opportunities exist within the Wellman Laboratories of Photomedicine and the Harvard/MGH Cutaneous Biology Research Center at the Massachusetts General Hospital, as well as at our Dermatology Research Laboratories at the Brigham and Women's Hospital.

The Department is a recipient of an NIH Training Grant which provides partial salary support for one, preferably two, years of directed laboratory research. Candidates must identify a mentor within the department. Funds are currently available for July 1, 1996. We will aid interested candidates in identifying mentors for their projects. A letter of inquiry specifying research interests and CV must be received by November 15, 1995.

We also offer fellowship programs in laser, dermatologic-surgery, and clinical trials. These programs begin on July 1st of each year, and some require that the applicant has completed training in dermatology.

We are also currently accepting applications for our Residency Training Program beginning July 1, 1997. The application deadline for this program is February 15, 1996.

The Department of Dermatology, Harvard Medical School is a joint multi-institutional teaching and training program with cooperative clinical and research activities at the Beth Israel Hospital, Brigham and Women's Hospital, Children's Hospital Medical Ctr., Cambridge Hospital, New England Deaconess Hospital, Massachusetts General Hospital, Dana Farber Cancer Institute, Harvard Community Health Plan, Lahey Clinic, and Brockton/W. Roxbury VA Medical Ctrs.

We are an Equal Opportunity/Affirmative Action Employer. Minorities, women, handicapped, and veterans are encouraged to apply. We are especially interested in receiving applications from underrepresented minorities.

Interested candidates should send a letter of inquiry and CV to: Howard P. Baden, M.D., Department of Dermatology, Warren 501, Massachusetts General Hospital, 32 Fruit Street, Boston, MA 02114, (617-726-5254).

FACULTY POSITIONS
IN THE CENTER FOR
GENE THERAPY
TENURE TRACK

The Center for Gene Therapy at Baylor College of Medicine is seeking qualified candidates with Ph.D. or M.D. degrees interested in basic and clinical studies of Gene Therapy. Established scientists and new investigators are invited to apply. Appointments will be made at an academic grade appropriate to the experience of the candidate. The Center wishes to identify scientists capable of pursuing independent study of basic gene transfer technology and vector biology, as well as clinical investigators interested in patient studies of gene therapy efficacy and safety. All areas of Human Gene Therapy will be considered including but not limited to inherited disease, cancer, cardiovascular disorders, neurological disorders, infectious diseases and gene vaccines.

Interested candidates should submit their curriculum vitae and bibliography, a statement of research goals, 3-5 representative publications, and the names of three references to:

John W. Belmont, M.D., Ph.D.
Chair, Faculty Search Committee
Center for Human Gene Therapy
Baylor College of Medicine
Room T826, One Baylor Plaza
Houston, TX 77030
Tel: (713) 798-4634
Fax: (713) 798-5386
belmont@ bcm.tmc.edu

Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are strongly encouraged to apply.
Choosing A Future: 
Career Opportunities and 
Academic Options for BS & MS Scientists

Announcing the 3rd Annual BS & MS Scientists 
Special Advertising Supplement. 
For the third consecutive year Science will publish a special advertising supplement devoted to BS and MS level scientists. In this year’s issue, we will examine this topic in two parts: career opportunities and academic programs.

Full Page Advertisements Receive: 
Special Reprint Distributions. Full page ads in the BS/MS section will be included in a special reprint of the advertising section and receive bonus distribution to students at over 70 of the top biology and chemistry programs at U.S. colleges and universities.

Minority Distribution. Your full page ad in the special section reprint will also be distributed to colleges and universities with historically high minority enrollment.

Prime Positioning. Full page advertisements will be placed throughout the career-related special supplement making your ad highly visible to Science readers.

Bonus Distribution. Copies of the 25 August BS/MS issue will be distributed at 2 Biotech/Pharmaceutical Job Fairs:
• 22-23 September, La Jolla, CA and 
• 29-30 September, Cambridge, MA.

Advertise on the Internet.
All recruitment advertisements in Science receive placement on Science JOBNET, Science classified advertising on-line. The Science JOBNET address is now listed on the World Wide Web sites of career placement centers at dozens of U.S. colleges and universities. That means students across the U.S. will have access to your on-line recruitment advertisement on Science JOBNET!

To access Science JOBNET: 
WWW: http://WWW.aaas.org 
Gopher: gopher.aaas.org

For advertising information, please call Janis Crowley at (212) 496-7704 or fax to (202) 682-0816.

Science

List of colleges and universities scheduled to participate in the 1995 bonus distribution of the Science BS/MS reprint:

Alabama A&M University* Boston University Brigham Young University Brown University Caltech Carnegie Mellon University Case Western Reserve Colorado State University Columbia University Cornell University Dartmouth College Delaware State University Duke University Emory University Fisk University* Florida A&M University* Georgetown University Grambling College* Harvard University Howard University* Indiana University Johns Hopkins University Lehigh University Mayo Medical School MIT Michigan State University* Morehouse College* New Mexico State University New York University Northeastern University North Carolina A&T State University North Carolina Central University Ohio State University Penn State University Princeton University Purdue University Rice University Spelman College* Stanford University SUNY, Buffalo Syracuse University Texas Tech University Tufts University Tuskegee University* University of Alabama University of Arkansas* UC - Berkeley UC - Davis UC - Los Angeles UC - Riverside UC - San Diego UC - Santa Barbara UC - Santa Cruz University of Chicago University of Colorado University of Delaware University of Houston University of Illinois University of Massachusetts University of Miami University of Minnesota University of North Carolina University of Notre Dame University of Oregon University of Pennsylvania University of Pittsburgh University of South Carolina University of Texas at Austin University of Utah University of Washington University of Wisconsin Vanderbilt University Washington University Winston-Salem State University* Yale University Yeshiva University


* The Nation's top schools for Biological Sciences, various Chemistry disciplines and Clinical Medicine ranked by the Institute for Scientific Information's Science Watch, as well as the top 20 schools from U.S. News & World Report's Annual America's Best Colleges issue. • Denotes institution with historically high minority enrollment
GENOMETRIX

Bridging Microelectronics and Molecular Biology

Genometrix is a pioneering leader in the development of electronic DNA microchips and associated molecular imaging instrumentation for DNA-based research and diagnostics.Nested in a forested, affordable master-planned community north of Houston, Genometrix is seeking highly qualified innovative candidates to fill the following positions:

**VP/Manufacturing and Engineering**

This position requires extensive bioanalytical instrument manufacturing experience for life science and clinical markets; demonstrated proficiency in planning, designing (DFMA), system integration, assembly, testing and certification (ISO and FDA); and a proven technical expertise in optical detection and imaging with CCDs, data acquisition, and ink-jet dispensing of reagents. Additional requirements include:

- B.S. or higher in Engineering
- 15+ years experience with proven efficiency in product time-to-market

**Senior Electro-Optical Engineer**

This position requires demonstrated proficiency in designing and building PC-based optical detection and imaging systems employing CCDs for UV, visible, IR and X-ray imaging. Additional requirements include:

- M.S. or higher degree in Electrical Engineering or Physics
- 10+ years experience with proven innovative contributions

**Electronic Technician**

This position requires extensive experience in designing, fabricating, testing and troubleshooting PC-driven CCD imaging systems. The candidates must have demonstrated proficiency with data acquisition electronics to include A/Ds, conditioning, timing, multiplexing, and DSP. Additional requirements include:

- 10+ years experience with demonstrated product achievements

Biochemist/Senior Biochemist

These positions required demonstrated proficiency in DNA-based research and diagnostics including sample preparation, oligonucleotide synthesis, fluorescent and chemiluminescent labeling, attachment chemistries, hybridization, probe-based clinical assays, detection systems, and various blotting protocols. Additional requirements include:

- B.S. or higher degree in Biochemistry or equivalent educational background
- 5/10+ years lab experience with demonstrated innovative contributions

Send letter of application and resume to:

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**GLOBAL CAREER OPPORTUNITIES**

**Group leader position at the Biotechnology Centre of Oslo**

The Biotechnology Centre of Oslo (BiO) is an institution under the University of Oslo devoted to basic research, teaching and promotion of biotechnology. BiO is located in The Oslo Research Park adjacent to the University campus. BiO normally houses five research groups and core facilities for protein and DNA sequencing as well as oligonucleotide and peptide synthesis, and the Norwegian EMNet node for bioinformatics. A total population of 80-95 consists of about 30 M.Sc. students, 20-30 Ph.D. students, 5-10 postdoctoral fellows, 5 group leaders and about 10 technical staff.

The University of Oslo now invites applications for a group leader position at BiO for an initial period of 5 years. The salary is in the professorial scale and an adjunct professorship is available pending evaluation by a University committee. Along with the group leader position are available salaries for a post-doctoral fellow, a Ph.D. student and a technician and an allowance for consumables and minor equipment.

The successful candidate will be about 35-40 years old and have an extensive postgraduate research experience in molecular biology/molecular genetics. A preference will be given to candidates with experience/interest in protein chemistry and whose project proposal involves such aspects. Quality of research is the most important concern. An international committee (The Scientific Advisory Group of BiO) will assist in the selection process.

Applications should be submitted in two copies, including a complete curriculum vitae, a list of publications and a project proposal, to Professor Hans Prydz, The Biotechnology Centre of Oslo, Gaustadallén 21, 0371 Oslo, Norway, before October 16, 1995. Further information is available from Professor Prydz (e-mail: hans.prydz@biotek.uio.no., fax: 47 22694130, phone: 47 22958754)

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**HARVARD UNIVERSITY**

**DEPARTMENT OF CHEMISTRY**

**ASSISTANT PROFESSORSHIP IN INORGANIC CHEMISTRY**

Applicants are invited to apply for an assistant professorship in inorganic chemistry. Applicants should arrange to have three letters of recommendation sent independently and should provide a curriculum vitae, a list of publications and outlines of two future research projects. Applications and supporting materials should be sent no later than 1 November 1995 to Professor Charles M. Lieber, Chairman of the Faculty Search Committee, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902. Harvard University is an Affirmative Action, Equal Opportunity Employer and welcomes applications from women and minority group members.

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Two years' experience in the development of analytical methodologies, analytical instrumentations, structural characterization of a wide variety of molecules including organic and biological molecules, and spectroscopic techniques including MS, NMR, UV and chromatographic methods required.

Familiarity in operation and maintenance of FISONs HPLC-API-MS, HP GC-MS, 300 MHz NMR. Strong background in organic chemistry.

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Salary: $50,000.00 per year

Reply by submitting two (2) copies of your resume to: Case Number 50053, P.O. Box 8968, Boston, MA 02114.

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**Research Scientist**

The scope of this one-year contract ranges from supervising, designing and conducting bioreactor cell culture studies - including summarizing and interpreting results - to developing technologies related to the growth and evaluation of mammalian cells in culture. This will involve, among other duties, evaluating bioreactor configurations and designing components to ensure cellular growth and viability.

A Ph.D. in a relevant discipline such as Microbiology, Biochemical Engineering, Biochemistry, Immunology or Molecular Biology is assumed, followed by one to five years of industrial application. Your mammalian cell culture experience using various bioreactor configurations is backed by a working knowledge of culture medium component development, scale-up of bench-top, laboratory methods to pilot scale procedures, and the establishment/maintenance of mammalian cell banks. Familiarity with the establishment of SOPs and process specifications and analytical methods required for GMP manufacturing would be invaluable in this position.

We offer a competitive salary and an excellent benefits package. Please forward your resume to: Employment Specialist, Apotex Inc., 150 Signet Drive, Weston, Ontario, M9L 1T9. Fax: (416) 749-5590. No phone calls, please.

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  Please forward your resume to the: **Manager, Human Resources, Inex Pharmaceuticals Corporation, 1779 West 75th Avenue, Vancouver, B.C. Canada V6P 6P2** or email: yaroshev@inexpharm.com
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* A limited number of hotel rooms are available at the conference site. Room reservations should be made directly with the Crystal City Marriott: call (703) 413-5500. Reference the AAAS Conference for the group discount.

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Molecular Biologist

We seek an individual with broad based molecular and biochemical skills. You will join a team developing technology based approaches including DNA database analysis to discover novel protein therapeutics.

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You will be responsible for evaluation and utilization of commercially available antibodies and novel monoclonal and polyclonal antibodies developed against newly characterized proteins, complete immunohistochemistry method development and method optimization studies, transference of these methods to relevant labs and providing technical advice to investigators. Candidates should have extensive experience and in-depth theoretical and practical knowledge of immunohistochemistry as well as technical skills in microtomy and cryotomy. Expertise in image analysis and/or morphometry would be a definite plus; excellent communication, organization and problem solving skills are essential. Job # CSN9

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RESEARCH FACULTY

INSECT DEVELOPMENTAL BIOLOGIST

The Center for Conservation Research and Training at the University of Hawaii, and the Center's Regional Research Station, is currently advertising a full-time ASSISTANT RESEARCHER (Position No. 086172T; non-tenure) to apply developmental biology approaches to the understanding of sexual behavior and the evolution of morphology and behavior in Hawaiian Drosophila. The successful candidate will be expected to design, perform, and evaluate experiments in collaboration with a team of researchers. This position will be shared, 50% to each of the departments. Applicants must have a doctoral degree in the fields of developmental biology with background in embryological and genetic approaches to elucidate the molecular basis of sexual selection. Applicants must have had at least one year of laboratory experience in Drosophila. A letter of application including statement of general research interests, curriculum vitae, and three letters of recommendation should be sent to: Dr. Kenneth G. Kaneshiro, Director, Center for Conservation Research and Training, University of Hawaii, 3050 Maili Way, Honolulu, HI 96822 by September 8, 1995. Telephone: 808-956-6739; FAX: 808-956-9608. Approximate start date is October 1, 1995. Affirmative Action/Equal Opportunity Employer.

TROPICAL ECOLOGY AND FORESTRY

The Institute of Pacific Islands Forestry, Pacific Southwest (PSW) Research Station, USDA Forest Service, with headquarters on Honolulu, Hawaii, has openings for three permanent full-time SCIENTISTS. Vacancy announcements which include qualifications requirements and application procedures can be requested from the PSW Research Station Personnel Office, 510-559-6365. Inquiries about the position should be directed to Dr. John J. Ewel, 808-522-8230. Application should be received by 15 September 1995.

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