

Bio-Recognition **Reconnaissance** **International Industrial** **Biotechnology Conference**

Montreal, Canada, June 1 - 4, 1992

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PROGRAMME

The programme includes a three-
track approach:

BIO-SCIENCE:

discussion of leading edge research
on ribozymes; antisense; genomics;
protein structure and function;
protein design; growth factors;
lipids; and glycobiology.

BIO-TECH:

discussion of protein synthesis;
expression systems; adsorption of
proteins to solid surfaces; nucleic
acid sequencing; RFLPs;
miniaturized biosensors; drug
delivery systems; use of
oligonucleotides, peptides and
Mabs for identification; and
carbohydrate-related technologies.

BIO-BUSINESS:

discussion of different approaches
to investment in biotechnology by
financial companies; a hands-on
workshop on how to pitch to the
financial community; sessions on
intellectual property and patent
law; regulations (health, safety and
field testing); taking your company
abroad; shaping your corporate
structure; and a look into the future
- biotechnology and the quality
of life.

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Speakers include:

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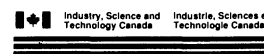
Ronald Worton
Toronto Hospital for Sick Children,
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SYMPOSIA

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nience of Windows-based software. Extensive wavelength scanning, time scanning, and quantitative analysis software modules address a wide array of applications. Post-run data processing routines provide advanced functions for comparing and manipulating spectral data for specific applications and report generation. Hitachi Instruments. Circle 88.

Unit Conversion Software

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more than 120 units and users can add their own. It requires 312K memory and DOS 2.0 or higher. Maple Leaf Software. Circle 89.

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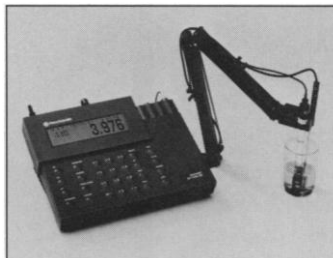
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Applications include purity determination of synthetic peptides, separation of peptide digests, and characterization of fractions recovered from high-performance liquid chromatography separations. Bio-Rad Laboratories. Circle 92.

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The Accumet 50 provides not only pH, ion-specific, millivolt, and temperature measurements,



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reading platinum resistance controller to maintain temperature with a fluctuation no greater than 0.1°C. Stuart Scientific. Circle 94.

Molecular Presentation Software

ChemPrint is a scientific desktop publishing program that features user-defined templates for easy composition of molecular structure presentations and reports. ChemPrint runs under Microsoft Windows 3.0 or higher on IBM-compatible computers. It can be used to produce images of chemical structures and reaction diagrams with text for publication-quality research papers. TRIPOS Associates. Circle 95.

Literature

Combiplate and *Microstrip* are brochures describing a complete line of microplates and strips designed for optical clarity and consistent protein binding. Elkay Lab-systems. Circle 96.

Here's a Good Reason for Choosing Quantikine is a booklet on a range of cytokine enzyme-linked immunosorbent assays. British Bio-technology Ltd. Circle 97.

Electrophoresis 91-92 is a catalog offering a full line of chambers for submarine gel, tube gel, isothermal-controlled, and alternating controlled electrophoresis; electrophoretic transfer; and electrophoretic elution. It also includes power supplies. E-C Apparatus Corp. Circle 98.

Electron Optics Bulletin (No. 131) features a powerful range of scanning electron microscopes in which all conventional controls have been replaced by just one, a mouse, connected to a standard personal computer that operates within the Windows environment to drive the whole system. Philips Analytical. Circle 99.

PolyScience is a catalog featuring immersion circulators, heating-refrigerated recirculators, and liquid chillers. PolyScience. Circle 100.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

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ASSISTANT PROFESSOR HEMATOLOGY/ONCOLOGY

The Division of Hematology/Oncology at University of Arkansas for Medical Sciences/Arkansas Cancer Research Center/John L. McClellan Veterans Administration Medical Center is searching for an assistant professor with demonstrated research and clinical expertise in lung cancer, multiple myeloma and bone marrow transplantation. Significant research background in gene therapy, cytokines, and Phase II/III range in protocols and clinical trials desired. Salary in the \$95,000 range. Applications should be directed to **Bart Barlogie, M.D., FACP, Professor of Medicine and Pathology, Director, Division of Hematology-Oncology and Director of Research, Arkansas Cancer Research Center, Veterans Administration Medical Center, 4301 West Markham, Mail Slot 508, Little Rock, AK 72205-9985; telephone: 501-686-5222; FAX: 501-686-8165. The University of Arkansas is an Equal Opportunity Employer.**

QUANTITATIVE FISHERIES MANAGEMENT APPLIED BIOSTATISTICS

The Department of Marine Biology in the College of Geosciences and Maritime Studies of Texas A&M University at Galveston is accepting applications for a 9-month, tenure-track **ASSISTANT PROFESSOR** faculty position in quantitative fisheries management/applied biostatistics beginning fall 1992. Applicants should have a broad background in population dynamics, experimental design/biostatistics, and/or computer modeling for application to living marine resource management. Persons employing modern methods in empirical and/or management analyses are encouraged to apply. The successful applicant is expected to teach courses in fish population/community dynamics, fisheries management and biostatistics; develop a vigorous, externally funded research program; direct graduate students; and provide statistical/modeling expertise. A joint appointment may be available to the successful applicant in the Department of Wildlife and Fisheries Science and/or Oceanography on the Texas A&M University campus at College Station. Applicants should send curriculum vitae, one-page descriptions of research and teaching goals, copies of research papers or manuscripts, and names, addresses and telephone numbers of three references to: **Dr. Randall Davis, Department of Marine Biology, Texas A&M University at Galveston, P.O. Box 1675, Galveston, TX 77553, by 31 May 1992.** This position is contingent upon approval of funding for the fall 1992 academic budget. *An Equal Opportunity/Affirmative Action Employer.* A part of the Texas A&M University System.

UNIVERSITY OF TEXAS MEDICAL BRANCH (UTMB) AT GALVESTON SCHOOL OF ALLIED HEALTH SCIENCES

Applications are invited for an **ASSISTANT PROFESSOR** tenure-track position commencing 1 September 1992. The position involves teaching human physiology and research in any area of physiology. Candidates must be strongly motivated toward research and committed to teaching at the undergraduate level. Candidates should send a letter of application, curriculum vitae, and the names and addresses of three references to: **Physiology Search Committee, Humanities and Basic Sciences, School of Allied Health Sciences, Route J28, University of Texas Medical Branch, Galveston, TX 77550. UTMB is an Equal Opportunity/Affirmative Action Employer M/F/H/V. UTMB hires only individuals authorized to work in the United States.**

NEUROSCIENTIST. Applications are invited for up to two tenure-track positions at the **ASSISTANT/ASSOCIATE PROFESSOR** ranks for neuroscientists with strong interests in studying vertebrate neural development, regeneration, or synaptic plasticity. The candidates should have demonstrated experience in modern cell or molecular biological methods and should be interested in collaborating with other members of an interactive group studying mechanisms of neural plasticity, including growth and recovery of function after spinal cord injury.

Curriculum vitae and three names of references should be sent to: **D. S. Faber, Department of Anatomy and Neurobiology, Medical College of Pennsylvania, 3200 Henry Avenue, Philadelphia, PA 19129. We are an Equal Opportunity/Affirmative Action Employer.**

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ECOLOGISTS

ASSISTANT OR ASSOCIATE SCIENTISTS

The Joseph W. Jones Ecological Research Center at Ichauway invites applications for three positions as assistant or associate scientists in ecology and natural resources science:

(1) **AQUATIC ECOLOGY.** To conduct biological or biogeochemical studies of disturbed and undisturbed wetlands and riverine ecosystems to potentially include faunal communities, biogeochemical processes and water quality, carbon dynamics, or coarse woody debris.

(2) **LANDSCAPE ECOLOGY.** Landscape level studies of disturbed and undisturbed ecosystems to potentially include aspects of biological diversity, patch dynamics, ecosystem processes or other approaches with GIS and remote sensing.

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The Joseph W. Jones Ecological Research Center is a new independent institution funded by the Robert W. Woodruff Foundation. The Center is located at Ichauway, a 28,000-acre experimental reserve in southwest Georgia, near Albany, with 16,000 acres of longleaf pine forests, 900 acres of limesink wetlands, and 26 miles of rivers.

The objective of the center is to develop a program of excellence in ecology and natural resource science that includes research, education and conservation goals. The center will build toward a target size of 10 to 12 scientists, their students and postdocs, administrative site management and support personnel.

Compensation is commensurate with experience, including a solid benefits and retirement program. Letters of application, résumés, and names of three references should be mailed by 25 May 1992 to: **Dr. Lindsay Ross Boring, Director, Joseph W. Jones Ecological Research Center, Ichauway, Route 2, Box 2324, Newton, GA 31770 (FAX: 912-734-4707).**

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ASSISTANT AND ASSOCIATE PROFESSORS

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WOMEN IN SCIENCE

March 13 Reprint

This first-time special section, reprinted from the March 13 issue of **SCIENCE**, takes an in-depth look at women in science.

This section explores:

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Successful candidate will apply molecular techniques to discover therapeutics for Alzheimer's disease. Requires 2-5 years post-doctoral training in *in vivo* CNS pharmacology; molecular biology experience also preferred.

Reference #109

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One grant of up to \$250,000 will be awarded in the fall of 1992. The grant may be renewed for 2 years thereafter, for a total of 3 years. Submission date for completed applications is **July 1, 1992**.

Applications will be evaluated by an internal review panel and an external advisory panel, both of which will consist of experts in the field of bone metabolism. Funding will be considered only for research proposals directly related to the discovery of new drugs/therapies for osteoporosis.

To be eligible, individuals must have an advanced degree (M.D., Ph.D., or the equivalent) and be conducting research at a university, teaching hospital, or nonprofit research center in the United States.

Requests for information or application materials can be made by writing to Dr. Susan M. Kaas at the following address:

Susan M. Kaas, Ph.D.
Procter & Gamble Pharmaceuticals
University Grant Program for Osteoporosis Therapies
Woods Corners, Route 320
Norwich, New York 13815
Telephone Number: (607) 335-2944
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Industrial Microbiologist

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Personnel Manager
Solvay Enzymes, Inc.
Dept. M-23
P.O. Box 4859
Elkhart, IN 46514-0859

Harvard Medical School

Professor and Head of Department of Cell Biology/ Physiology

The Harvard Medical School is seeking to fill a Professorship and Head of a new Department of Cell Biology/Physiology. The successful candidate will be responsible for the recruitment of faculty in the discipline of cell biology, for coordinating the activities and appointments of the Department, for fostering the career development of the members of the Department, and for assuring that members of the Department participate in teaching activities for medical students, graduate students and postdoctoral fellows. Candidates should have vigorous scientific leadership in cell biology, as demonstrated by their scientific accomplishments, international recognition, and firm sense of the opportunities made available by the growth of modern cell biology. Candidates should have background in training outstanding students as well as proven ability to counsel young scholars. Candidates should send a curriculum vitae and statement of research interests, and three references to **Dr. Philip Leder, Head Department of Genetics, Harvard Medical School, 25 Shattuck St., Boston, MA 02115. Harvard Medical School is an Affirmative Action/Equal Opportunity Employer. Qualified female and minority applicants are encouraged to apply.**

POSITIONS OPEN

HARVARD MEDICAL SCHOOL DEPARTMENT OF PATHOLOGY

The Department of Pathology at Harvard Medical School seeks well-qualified (Ph.D., M.D./Ph.D., or M.D.) applicants for several positions of **ASSISTANT PROFESSOR** as part of an expansion of a basic research program in tumor biology. Candidates should have completed 3 to 5 years of relevant postdoctoral experience and have the capability of directing an independent research program in an academic setting in the areas of cell cycle control, transcriptional regulation, tumor suppressor genes, and signal transduction as they relate to cancer biology and viral oncology. Candidates are expected to participate in the teaching activities of the department for medical students, graduate students, and postdoctoral fellows. Recently renovated laboratory research space will become available in July 1993. Applicants should send their curriculum vitae, a statement of research interest, and the names of three references to: **Ms. Laura Weisel, Department of Pathology, Harvard Medical School, Building D2, 6th Floor, 200 Longwood Avenue, Boston, MA 02115. Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

DEPARTMENT OF PHYSIOLOGY

The University of California, San Francisco, seeks applicants for a position of **ASSISTANT or ASSOCIATE PROFESSOR** in residence in the Department of Physiology. The person we seek will have as their major responsibility the supervision and teaching of a course in mammalian physiology. The candidate will also carry out an active independent research program in physiology, and will participate in the training of graduate students. Evidence of highly successful teaching experience in mammalian physiology will be essential. Applications should include curriculum vitae, statements of teaching experience and research interests, reprints of selected publications, and the names of three individuals who have been asked to submit reference letters. *Women and minorities are encouraged to apply.* Applications should be submitted by 30 June 1992. Applications should be sent to: **Dr. Mary Dallman, Chair, Search Committee, Department of Physiology, Box 0444, University of California, San Francisco, CA 94143-0444. University of California, San Francisco, is an Equal Opportunity/Affirmative Action Employer.**

UNIVERSITY OF SOUTHERN CALIFORNIA TENURE-TRACK FACULTY POSITIONS (CELL BIOLOGISTS, MOLECULAR BIOLOGISTS, IMMUNOLOGISTS)

Applications are invited for **ASSISTANT/ASSOCIATE PROFESSOR** positions in the Department of Pharmaceutical Sciences, School of Pharmacy. Outstanding candidates with research interests in cell biology, molecular biology, or immunology related to drug targeting are invited to apply. Applicants must possess a Ph.D. degree in the biological, chemical, or pharmaceutical sciences. Participation in team teaching at both the undergraduate and graduate levels is required. Please submit curriculum vitae, selected reprints, a short statement of future research plans, and the names and addresses of three references by 29 May 1992 to: **Vincent H. L. Lee, Ph.D., University of Southern California, John Stauffer Pharmaceutical Sciences Center, 1985 Zonal Avenue, Los Angeles, CA 90033-1086, telephone: 213-342-3269. Equal Opportunity Employer M/F/H.**

FACULTY POSITIONS IN PHYSIOLOGY

The Department of Physiology at Loyola University Chicago, Stritch School of Medicine, is seeking applicants for several tenure-track positions at the **ASSISTANT, ASSOCIATE OR FULL PROFESSOR LEVEL**. Applicants must have a Ph.D., M.D. or equivalent and are expected to have the ability to establish a strong research program. Senior applicants should have a strong record of research productivity. Applications are especially encouraged from individuals with research using molecular, cellular or biophysical approaches in the study of ion channels/membrane transport or signal transduction and E-C coupling in smooth, cardiac or skeletal muscle. Send letter, curriculum vitae including research plans and names of three references to: **Donald M. Bers, Ph.D., Chairman, Department of Physiology, Loyola University Chicago, 2160 First Avenue, Maywood, IL 60153. Loyola is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR

The Department of Pathobiology in the School of Public Health and Community Medicine at the University of Washington announces four to six immediate faculty position openings at either the assistant or associate professor level. Positions require an M.D. or Ph.D. with an established record of independent research as demonstrated by peer-reviewed publications and/or competitive grant proposals.

We are seeking individuals with five or more years of postdoctoral experience in molecular biology or immunology of parasites, or other pathogens of public health importance. These individuals will establish an independent research program utilizing host pathogen interaction or pathogen-specific processes and participate in collaborative research projects to develop molecular diagnostics, vaccines and investigate fundamental molecular and immunological processes relevant to pathogenesis.

The successful candidates are also expected to participate in teaching and precepting graduate students in the department. Applicants should send a letter of interest, curriculum vitae, and names and addresses of a minimum of four references to: George J. Todaro, M.D., Chair, Search Committee, Department of Pathobiology, SC-38, University of Washington, Seattle, WA 98195. The application deadline for these positions is 1 June 1992.

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

FACULTY POSITIONS

DRUG METABOLISM— CARDIOVASCULAR PHARMACOLOGY— MOLECULAR PHARMACOLOGY

The Center for Clinical Pharmacology, Departments of Medicine and Pharmacology, is recruiting individuals for appointment to tenure-track positions at the INSTRUCTOR/ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR levels. The center is an interdisciplinary group of clinical and basic investigators whose research aims to elucidate mechanisms of drug action, especially in humans. Current research programs focus on xenobiotic disposition, ion channel physiology and pharmacology, hypertension and the autonomic nervous system, and eicosanoid biology. Successful candidates will have an M.D. and/or Ph.D. in pharmacology, biochemistry, toxicology or related discipline; and demonstrated excellence in research. Appointees will be expected to establish independent research programs which use contemporary methods of investigation of basic molecular mechanisms as they apply to broadly defined problems of drug action, and will be expected to develop effective collaborations with other center faculty members. Send applications, including curriculum vitae, a letter stating research interests, and the names of three references to: Dan M. Roden, Director, Division of Clinical Pharmacology, Vanderbilt University, Nashville, TN 37232-6602.

Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

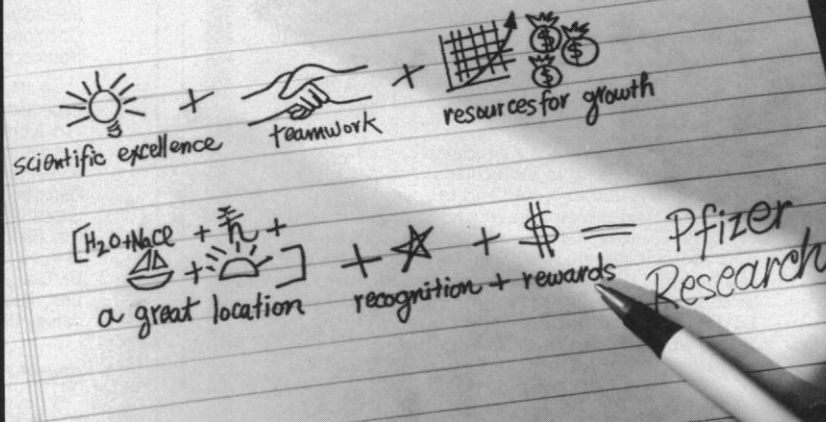
SPINAL CORD NEUROPLASTICITY. ASSOCIATE OR FULL PROFESSOR. Department of Anatomy and Neurobiology, Medical College of Pennsylvania. Applicants are sought for a tenure-track position. The department seeks an individual with a proven record of research into mechanisms of recovery of function after spinal cord injury, with an emphasis on behavioral methods. The candidate should be interested in collaborating with other members of an active group that uses transplantation, cell culture, and molecular approaches to improve methods for obtaining recovery of function.

Curriculum vitae and three names of reference should be sent to: Marion Murray, Department of Anatomy and Neurobiology, Medical College of Pennsylvania, 3200 Henry Avenue, Philadelphia, PA 19129. We are an Equal Opportunity/Affirmative Action Employer.

MAMMALOGIST/VERTEBRATE MORPHOLOGIST. Temporary sabbatical replacement, three academic quarters, beginning 1 September 1992. Includes teaching introductory biology, comparative anatomy of vertebrates, mammalogy. Applicants must have a Ph.D. Send letter of application, curriculum vitae, transcripts, names and telephone numbers of three references to: Dr. H. Collins, Department of Biology, University of Minnesota, Duluth, MN 55812-2496. Postmark deadline is 22 May 1992. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

Bone Cell Biologists

Solve the equation for success.



The Central Research Division of Pfizer Inc is seeking qualified scientists to join a team whose research is directed toward identifying new strategies for the treatment of osteoporosis.

Research Scientist

Your qualifications should include a PhD degree in Biochemistry/Cell Biology and at least two years postdoctoral training. Demonstrated expertise in the isolation and culture of cells, stem cell and osteoblast differentiation and regulation, receptor/ligand binding or radioimmunoassays is necessary. You will be expected to establish and maintain collaborations with other scientists in the molecular biology, pharmacology and medicinal chemistry disciplines.

Assistant Scientist

You should possess a BS/MS degree in the biological sciences and have two years of research laboratory experience. An expertise in one or more of the following techniques is desired: organ/cell culture, immunohistochemistry, RIA, biochemical assays, ELISA and HPLC.

Pfizer offers a stimulating research environment and a competitive compensation and benefits package, along with relocation assistance to this southeastern Connecticut shoreline community. Please send a resume, a description of your research experience, and the names of three references to: Mr. Kym Goddu, Personnel Associate, Employee Resources Department, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.



Central Research

Bringing science to life.

The Division of Immunology in the Research Institute at The Hospital For Sick Children is seeking candidates for:

POSTDOCTORAL POSITIONS

Multiple positions are available in two newly established, well-funded laboratories utilizing cellular, flow cytometric, molecular genetic and transgenic techniques to study the development and function of T lymphocytes.

Dr. Jayne Danska: molecular basis of self-antigen recognition through the T cell receptor during development and tissue-specific autoimmune disease, including endocrine and viral modulators of autoimmune reactivity in the non-obese diabetic mouse. **Dr. Cynthia Guidos:** molecular mechanisms of normal and neoplastic T cell development, including mechanisms of signal transduction and identification of genes that regulate cell fate decisions in immature T cells.

The Research Institute is a productive, interactive community working in molecular genetics, biochemistry, immunology, and cancer, cell, and developmental biology. Interested individuals with M.D., Ph.D. or D.V.M. degrees, and experience in immunology, genetics, biochemistry, molecular or cell biology, should forward a curriculum vitae, and three reference letters before June 15, 1992, to: **Division of Immunology and Cancer, The Hospital For Sick Children, 555 University Avenue, Toronto, Ontario, Canada, M5G 1X8.**



THE HOSPITAL
FOR SICK CHILDREN

ROCHE

STAFF POSITION

Applications are invited for a position equivalent in rank to Assistant Professor in the newly established Department of Gene Regulation. We are seeking a candidate with a research focus ranging from transcriptional regulatory mechanisms to signal transduction pathways; or an individual using viral systems to explore fundamental aspects of gene expression. Interaction with members in the Departments of Molecular Oncology and Virology, Cell and Developmental Biology, and Neurosciences is strongly encouraged.

Institute staff enjoy complete academic freedom and independence in the choice and pursuit of research problems. Full funding for research programs, including postdoctoral fellows, is provided by Hoffmann-La Roche. Institute staff can obtain graduate students through a joint program with the Department of Biology at Columbia University. The Institute is located in a suburban setting only 10 miles west of New York City. For consideration, please send a curriculum vitae, names of three references and a summary of research interests to: **Dr. Craig Rosen, Chairman, Department of Gene Regulation, Roche Institute of Molecular Biology, Nutley, New Jersey 07110.** We are an equal opportunity employer.

ROCHE

Roche Institute of Molecular Biology
Hoffmann-La Roche Inc

The Institute of Molecular Biology, Inc. (IMB) is a rapidly growing biotechnology company committed to bringing quality pharmaceuticals to the health care field. IMB offers the opportunity to work among a group of dedicated, highly respected scientists in a newly constructed facility in the Massachusetts Biotechnology Research Park located approximately 40 miles outside Boston, MA. IMB is seeking to fill new positions in the following areas:

Applied Research Scientist

This position involves designing and conducting in vivo efficacy studies in tissue repair and coordinating the conduct of the supporting analytical and in vitro evaluations. The ideal candidate would have expertise in: 1. The physiology of the repair of one or more tissue types such as bone, nerve, and skin, etc.; 2. Polypeptide growth or differentiation factors; and 3. The statistical analysis of data and writing of scientific reports. A working knowledge of common protein chemistry and molecular biology techniques is helpful. Requires an MD, PhD, DVM or equivalent.

Protein Chemist

This position involves the purification and characterization of novel proteins involved in the regulation of cell growth and coordinating the conduct of the supporting in vitro evaluations. The ideal candidate would have expertise in: 1. HPLC/FPLC; 2. Gel electrophoresis and Western analysis; 3. Peptide mapping; 4. Immunohistochemistry; and 5. The writing of scientific reports. Working knowledge in Northern blot analysis and in situ hybridization helpful. Requires PhD with 2+ years of postdoctoral or other equivalent experience.

IMB is an equal opportunity employer and offers competitive salary and benefits. For consideration please send your resume to: **Human Resources, Institute of Molecular Biology, Inc., One Innovation Drive, Worcester, MA 01605-4308.**

The Fourth Bristol Myers Squibb Symposium on Neuroscience

MOLECULAR PATHOGENESIS OF HUMAN NEUROLOGICAL DISEASES

November 13 and 14, 1992

Harvard University
Cambridge, MA

Louis M. Kunkel, Harvard Medical School
The Dystrophin Gene & Duchenne's Muscular Dystrophy

Robert L. Barchi, University of Pennsylvania
Defective Ion Channels in Muscle Diseases

James F. Gusella, Massachusetts General Hospital
Molecular Genetics of Huntington's Disease

Solomon H. Snyder, Johns Hopkins University
Nitric Oxide and Selective Neuronal Death

Stephen T. Warren, Emory University
Codon Duplication in Fragile X Syndrome

Thaddeus P. Dryja, Massachusetts Eye and Ear Infirmary
Molecular Genetics of Retinoblastoma & Retinitis Pigmentosa

Stanley B. Prusiner, University of California, San Francisco
Prion Diseases: Neurodegeneration of Genetic and Infectious Origin

Dennis J. Selkoe, Harvard Medical School
Amyloid Precursor Protein & The Pathogenesis of Alzheimer's Disease

Information and Registration:

Nicole Boucher FAX: 617-732-7787
Center for Neurologic Diseases,
Brigham and Women's Hospital
221 Longwood Avenue, Boston, MA 02115

OPPORTUNITIES IN MOLECULAR GENETICS/ MACROMOLECULAR SCIENCES

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has opportunities for scientists to join its Molecular Genetics/Macromolecular Sciences Departments. At SmithKline Beecham Pharmaceuticals the scientist will have the technology and resources to conduct breakthrough research in a collaborative environment where publication of results is strongly encouraged.

Scientist/Molecular Genetics

The selected candidate will perform experiments in molecular biology, including cDNA and gene cloning expression and characterization of gene products and also assist in the design, interpretation and modification of experiments and techniques. Candidates will have a B.S. and/or M.S. in Chemistry/Biochemistry/Biology plus 0-5 years applicable experience. Prior laboratory experience should include cloning techniques, DNA sequencing and screening of DNA and genomic libraries. #L0121.

Postdoctoral Scientist/Molecular Genetics

The successful candidate will be responsible for the study of the regulation and function of cytokines and their receptors using molecular biology techniques. A Ph.D. in Biology, Biochemistry, Chemistry or related discipline and experience in standard recombinant DNA techniques is required. Experience in construction and screening of cDNA and genomic libraries, expression of genes in bacteria and eukaryotic cells, tissue culture, RNA isolation, protein purification, site specific mutagenesis and receptor binding studies technologies is desirable. #L0122.

Postdoctoral Scientists/Molecular Genetics

Two scientists will be selected to study the tat transactivator and the structure and function of the protease and gag proteins from the human immunodeficiency virus, using molecular biology techniques. Successful candidates will have a Ph.D. in Molecular Biology, Microbiology, Biochemistry or Immunology. Experience in recombinant DNA technology, advanced bacterial genetics, eukaryotic molecular biology and tissue culture, protein analysis and immunological techniques is desired. #L0123.

Postdoctoral Scientist/Macromolecular Sciences

The qualified candidate will be responsible for the expression and immunological characterization of proteins from the sexual stage of malaria parasites. The successful candidate will have a Ph.D. in Molecular Biology, Microbiology, Biochemistry or Immunology. Experience in recombinant DNA technology, advanced bacterial genetics, eukaryotic molecular biology and tissue culture, protein analysis and immunological techniques is desired. #L0124.

Postdoctoral Scientist/Macromolecular Sciences

Selected candidate will study the influence of sequence and conformation on the biological activity of peptides by installing bioactive amino acid sequences into a protein of known structure using recombinant DNA methods. The candidate will design and make protein sequence variants, analyze their activities and collaborate within SmithKline Beecham to determine structural features of these hybrid proteins. Ideal candidate will have a Ph.D. in an appropriate field, experience with molecular genetics and protein biochemistry techniques, and familiarity with computer graphics analysis. #L0125.

Our state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. We offer a competitive compensation/benefits/relocation package, as well as opportunities for personal and professional growth. For confidential consideration, please send your C.V. indicating job number and the names of three references to Marilyn Leggieri, Associate Employment Administrator, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.


SmithKline Beecham
Pharmaceuticals

UCAR Visiting Research Program for Senior and Postdoctoral Scientists

The University Corporation for Atmospheric Research (UCAR) is pleased to announce the continuation of its Visiting Research program, which provides research opportunities at the National Oceanic and Atmospheric Administration (NOAA) Science Center at Camp Springs, Maryland.

The program offers visiting research appointments in the atmospheric and related sciences, and in remote sensing, at two of the premier R&D centers in the world devoted to operational weather prediction and space-based remote sensing of the Earth: NOAA's National Meteorological Center (NMC) and National Environmental Satellite, Data, and Information Service (NESDIS).

Openings in the UCAR program include positions for senior and postdoctoral scientists. In addition, there are positions for graduate students working on doctoral research programs. Members of the UCAR group will have access to the computing resources of NMC and NESDIS, which include powerful mainframes (including currently a Cray YMP with 8 processors), workstations, image processors, and associated graphics, and to global data bases from NMC models, NOAA satellites and others. Remuneration will be commensurate with the experience of the scientists and local living costs, and will be competitive with analogous university and government appointments. Appointments will be for up to two years.

There is no application form. Qualified scientists are encouraged to apply to this program by sending a resume along with a statement of how their research interests and experience relate to the areas of scientific interest at NMC and NESDIS.

Applicants should include a brief description of proposed work along with an estimate of computer and/or other resource requirements. All applications should include the names and addresses of four professional references, and applicants are urged to contact the referees to encourage them to submit letters in support of the application. Applications for the graduate student positions should be initiated by the sponsoring senior visiting scientist, with prior consultation with the staff at NMC and NESDIS. **The next application deadline is 15 July 1992.** To receive more detailed information on the program please call (303) 497-8649 or send an e-mail message to m.austin (OMNET) or maustin@ncar.ucar.edu (internet). Send applications to Meg Austin, UCAR Projects Office, P.O. Box 3000, Boulder, CO 80307.



UCAR is an Equal Opportunity Affirmative Action employer

POSITIONS OPEN

HARVARD MEDICAL SCHOOL PROFESSOR OF MOLECULAR PHYSIOLOGY OF ION CHANNELS

Applications are invited for the position of professor of cellular and molecular physiology at Harvard Medical School. Candidates should have strong credentials in the areas of biophysical properties of channels, mutational analysis of channel proteins and the chemical and pharmacological modulation of channels. The position includes responsibility for training graduate students and postdoctoral fellows and a leading role in a course on Metabolism and Function required of first-year medical students. Applicants should submit curriculum vitae and bibliography to: **Professor David Potter, Chairperson of the Search Committee, Department of Neurobiology, Harvard Medical School, 25 Shattuck Street, Boston, MA 02115 by 15 May 1992.** *Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. Female and minority physiologists are encouraged to apply.*

CHAIRPERSON DEPARTMENT OF PATHOLOGY LOYOLA UNIVERSITY MEDICAL SCHOOL 2160 SOUTH FIRST AVENUE MAYWOOD, IL 60153

Applications are invited for the position of **PROFESSOR and CHAIRPERSON** of the Department of Pathology at Loyola University Medical School, Maywood, Illinois. Candidates must have a distinguished record of scholarship and professional achievement, proven leadership and administrative ability. Send applications and curriculum vitae to the Chairman of the Search Committee:

Robert J. Freeark, M.D.
Chairman, Department of Surgery
Loyola University Medical Center
2160 South First Avenue
Maywood, IL 60153

An Affirmative Action/Equal Opportunity Employer.

ASSOCIATE CHIEF OF STAFF for Research and Development. The Department of Veterans Affairs Medical Center (VAMC), Highland Drive, Pittsburgh, Pennsylvania, is currently seeking a physician/scientist for the position of associate chief of staff for Research and Development to give leadership to the medical research program and to strengthen further its research program. This medical center provides primary and tertiary care for veterans with psychiatric disorders, such as schizophrenia, post-traumatic stress disorder, dementia, substance abuse and cognitive disorders. Management supports research endeavors, medical licensure in any state and Board-certification or -eligibility are required. The successful candidate is expected to continue his/her own research program, as well as possess the necessary qualifications for an academic appointment in the appropriate department at the University of Pittsburgh School of Medicine. There are active ongoing funded research programs in schizophrenia, psychophysiology, post-traumatic stress disorder, substance abuse and cognition. In addition to a schizophrenia research unit, psychophysiology, sleep and biochemistry laboratories, there is interest in increasing research in aging, substance abuse and brain imaging (PET scan and MRI). Qualified candidates interested in applying for the position of associate chief of staff for Research and Development should send curriculum vitae, including bibliography and the names of at least three references to: **The Chairman of the Search Committee, Daniel E. Van Kammen, M.D., Ph.D., Professor of Psychiatry, Chief of Staff (11), VAMC, Highland Drive, Pittsburgh, PA 15206.**

PROGRAM OFFICER BOARD ON BIOLOGY

The National Research Council (NRC) is seeking a program officer for studies on marine biotechnology, biobased industrial products, bioprocess engineering and other biotechnology projects. Position requires Ph.D. or equivalent in biological sciences or bioengineering, at least 1 year with technical project management; and analysis, oral and written communications and project administration skills. Working knowledge of federal agencies highly preferred. Please send résumé in confidence to: **NRC/CLS, NAS 343-(JB), 2101 Constitution Avenue, NW, Washington, DC 20418.** *Equal Opportunity Employer.*

POSITIONS OPEN

CONSORTIUM COORDINATOR

Consortium coordinator will work with the managing director on U.S.-AID funded plant biotechnology project to organize regional meetings and to produce a quarterly newsletter. Master's degree required, Ph.D. preferred. Five years of experience in conference or program coordination, including professional writing and publication design. This is a 1-year appointment, possible renewal for a period up to 6 years. Previous international experience desired. Knowledge of either Spanish, Arabic and French desired. Candidate should be willing to travel. For application contact: **Michigan State University (MSU) Employment Office. Telephone: 517-336-1662, and refer to posting #P20030.** Deadline for application is 15 May 1992. *MSU is an Affirmative Action/Equal Opportunity Institution.*

UNIVERSITY OF MINNESOTA, TWIN CITIES, invites applications and nominations for the position of **DEAN OF THE INSTITUTE OF TECHNOLOGY**. The Institute consists of the departments of mathematics, physical sciences and engineering of one of the largest land-grant universities in the nation. The dean reports to the vice provost for arts, sciences and engineering. The successful candidate must have: (1) Ph.D. degree or requisite terminal degree, (2) record of teaching and research commensurate with a tenured professor in the institute, (3) strong commitment to academic excellence, (4) demonstrated ability to articulate the institute's mission and work effectively with university community and external constituencies, (5) administrative experience, and (6) demonstrated commitment to equal opportunity and affirmative action. Applications should include a letter expressing interest, curriculum vitae, and the names, addresses and telephone numbers of three references. Nominations are also encouraged. Applications or nominations must be postmarked (or FAX-dated) by 1 July 1992. Send to: **Dr. H. Ted Davis, University of Minnesota, 421 Washington Avenue Southeast, Minneapolis, MN 55455, FAX: 612-626-7246.** *The University of Minnesota is committed to the policy that all persons shall have access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.*

SENIOR EXTENSION ASSOCIATE DIRECTOR, Cornell Biotechnology Technology Transfer and Economic Development Program. Interface between the biotechnology industry (especially small firms) in New York State, research scientists and engineers on campus, and related economic development programs. Master's degree (Ph.D. preferred) in biological or engineering science; 8 years of relevant business or manufacturing experience. Salary commensurate with qualifications. Send letter of intent, résumé and transcript(s) by 21 May 1992 to: **Box 26, Kennedy Hall, Cornell University, Ithaca, NY 14852.** *Equal Opportunity Employer.*

MOLECULAR/CELL BIOLOGIST THE BEN MAY INSTITUTE THE UNIVERSITY OF CHICAGO

The Ben May Institute of the University of Chicago is seeking applicants for a junior or intermediate level **FACULTY POSITION**. We are developing a strong program in the molecular aspects of the control of cell growth and differentiation. We are seeking an outstanding individual who is using the approaches of molecular biology or cell physiology to examine basic mechanisms of cell signaling events or regulation of gene expression. Existing related research programs in the Ben May Institute include molecular and genetic aspects of receptor signaling mechanisms involving steroid hormone receptors, growth factor receptors, and T lymphocyte activation and regulation. Candidates should have sufficient research experience to demonstrate both significant accomplishment and outstanding promise. Letters of application including curriculum vitae, bibliography, a brief statement indicating research interest, and the names of three references should be sent to: **Dr. Frank Fitch, Director, Ben May Institute MC6027, THE UNIVERSITY OF CHICAGO, 5841 South Maryland Avenue, Chicago, IL 60637.** *An Affirmative Action/Equal Opportunity Employer.*

MOLECULAR SPECIALIST

*We're Building A Dynamic Future
(...Yours and Ours)*

Hinsdale Hospital, a prominent 460-bed acute care facility located in the western suburbs of Chicago boasts a progressive Pathology Department. Currently, we are seeking a Molecular Specialist to join our team.

We require a professional with an MS or Ph.D. in Chemistry, Biology or immunology along with a minimum of 1 year experience in advanced, molecular biology technology and image analysis.

Find out more about our prestigious hospital and the exceptional compensation/benefits that await the qualified candidate (Relocation Assistance Available). If interested, please call or FAX/MAIL your resume to Barbara Blood at:

(708)887-2475



Hinsdale Hospital

120 N. Oak Street
Hinsdale, IL 60521
Fax: (708)887-4847

An Equal Opportunity Employer

CANCER PREVENTION FELLOWSHIP PROGRAM

The Division of Cancer Prevention and Control (DCPC) is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: Master of Public Health training (at accredited universities); Participation in the DCPC Cancer Prevention and Control Academic Summer Course; Working at NCI directly with individual preceptors on cancer prevention and control projects; Field assignments in cancer prevention and control programs at other institutions. Funding permitting, as many as ten Fellows will be accepted for up to three years of training, beginning July 1, 1993. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

ELIGIBILITY

M.D. or D.D.S. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current ECFMG/FMGEMS certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

OR

Ph.D., Dr. P.H. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

PLUS

U.S. citizenship or resident alien eligible for citizenship within four years.

For details and application catalog, send a postcard or letter with your name and home address to:

Douglas L. Weed, M.D., M.P.H., Ph.D.
Director

Cancer Prevention Fellowship Program
Division of Cancer Prevention and Control

Deadline for Receipt of Applications:
September 1, 1992

Further Inquiries: Mrs. Barbara Redding, (301) 496-8640

NATIONAL CANCER INSTITUTE

Executive Plaza South, T-41, Bethesda, MD 20892

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OSTEOPOROSIS RESEARCH

For more than 115 years, Eli Lilly and Company has produced pharmaceutical products that are used to improve life in over 100 countries around the world. The Company provides a research environment where scientists are successful and excited about their work. Senior Scientists work within multidisciplinary teams that lead to an exchange of ideas directly influencing the outcome of projects. In addition to attractive salaries and benefits, Lilly provides excellent opportunities for continued growth through in-house seminars and off-site programs.

Lilly Research Laboratories, a division of Eli Lilly and Company, is looking for PhDs in the following areas:

CELLULAR DIFFERENTIATION

Join our *in vitro* bone program team working on osteoclast and/or osteoblast differentiation from stem cell precursors in the marrow environment. In addition to a PhD or MD degree, you must have 2-3 years of postdoctoral experience with a background in cell differentiation and/or signal transduction.

PHARMACOLOGY

With your PhD in Pharmacology, Endocrinology or related field, you'll become part of an interdisciplinary team investigating *in vivo* modulation of bone modeling. 2-3 years of postdoctoral experience is also required.

PATHOLOGY

Use your past experience in histomorphometry and/or molecular cytopathology to evaluate the drug effects on bone. To qualify, you must have a PhD, MD, DVM or DDS, along with appropriate field experience.

Qualified applicants should send their curriculum vitae, including program of interest, to: Albert L. Peyton, PhD, PhD Recruitment S501, Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285. We are an equal opportunity employer.

POSITIONS OPEN

IMMUNOLOGY/TOXICOLOGY

The School of Marine Science, Virginia Institute of Marine Science, College of William and Mary, invites applications for a tenure-track **FACULTY POSITION** in immunology/toxicology of marine and estuarine organisms. Ph.D. required with demonstrated experience in modern immunological approaches to toxicological research. The successful applicant will have a commitment to graduate education and will be expected to develop a vigorous, extramurally funded research program to investigate the effects of anthropogenic chemicals on the immune system of finfish or shellfish. Depending upon qualifications, the position may also involve some program administrative responsibilities. Rank and salary dependent upon qualifications. Position available 1 July 1992.

Send curriculum vitae, statement of research interests and the names of four references to: **Dr. E. M. Burrenson, School of Marine Science, Virginia Institute of Marine Science, Gloucester Point, VA 23062**. Review of applications will begin on 1 June 1992 and will continue until the position is filled. *Women and minorities are especially invited to apply.*

The College of William and Mary is an Affirmative Action, Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available at the Medical University of South Carolina (MUSC) in Charleston to participate in federally funded alcohol research program. Research emphasis is on the role of prostaglandins in mediating alcohol-induced birth defects; neurochemical mechanisms underlying functional deficits following fetal alcohol exposure; and brain mechanisms underlying alcohol tolerance and dependence. Prefer background in psychopharmacology or reproductive biology. Send curriculum vitae and names of three references to: **Dr. Carrie Randall, Department of Psychiatry and Behavioral Sciences, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425**. *Applicants must be U.S. citizens. MUSC is an Equal Opportunity Employer.*

POSITIONS OPEN

PHYSIOLOGY, FACULTY. A tenure-track position for an investigator in cellular physiology, biophysics, or neuroscience. Researchers in cellular/molecular physiology, membrane transport, or neurobiology are especially invited to apply. Applications including curriculum vitae, a brief statement of research interests, and the names of three references should be mailed to: **Dr. Robert B. Gunn, Chairman, Department of Physiology, Emory University School of Medicine, Atlanta, GA 30322**. New applications will be considered until 15 June 1992 or until the position is filled. *Emory University is an Equal Opportunity/Affirmative Action Employer.*

TWO POSTDOCTORAL POSITIONS are available immediately. One postdoctoral position is in the area of protein engineering of enzymes for use in organic solvents. A Ph.D. in biochemistry, microbiology, or molecular biology is required and experience in site-directed mutagenesis and enzyme structure and function are desirable. The candidate should have an interest in both fundamental and applied aspects of nonaqueous enzymology. A second postdoctoral position is available to study microbial peroxidases and their structure and kinetics. A Ph.D. in chemical engineering, microbiology, or chemistry is required. Knowledge of peroxidase chemistry is desirable. Submit curriculum vitae and three letters of reference to: **Professor Jonathan S. Dordick, Department of Chemical & Biochemical Engineering, University of Iowa, Iowa City, IA 52242**. *The University of Iowa is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available 30 June 1992 to study pathogenesis of an infectious leukemia of salmonid fish with a suspected retroviral origin. Knowledge of monoclonal antibody techniques essential with a working background in molecular biology or retroviral disease desirable. This is an NSERC-funded project for 2 years. Send curriculum vitae and names of three references to: **Dr. F. Markham, Atlantic Veterinary College, UPEI, Charlottetown, PEI, Canada, C1A 4P3**. **FAX: 902-566-0958**.

POSITIONS OPEN

POSTDOCTORAL POSITION available to study the regulated expression and functional and developmental significance of a previously unknown nonfibrillar collagen. The gene for this protein, recently discovered in this laboratory, is expressed at high levels only in certain immune tissues. Molecular biology experience required. Additional cellular, biochemical, immunological or in situ hybridization skills are desirable. Send curriculum vitae and names of three references to: **Dr. Daniel S. Greenspan, Department of Pathology, University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53706**.

TWO POSTDOCTORAL POSITIONS available, one immediately, to study blood cell differentiation, including growth arrest, apoptosis and suppression of leukemia, at the molecular and cellular level. The role and regulation of transcription factors, proto-oncogenes and novel genes is being investigated [*MCB* 11, 2375 (1991); *MCB* 11, 437 (1991); *MCB* 12 (June 1992)]. Recombinant DNA experience desirable. Send curriculum vitae and names of three references to: **Drs. B. Hoffman-Liebermann and D. Liebermann, Department of Biochemistry and Biophysics, University of Pennsylvania, School of Medicine, Philadelphia, PA 19104-6059**. **FAX: 215-898-4217**. *Equal Opportunity Employer.*

POSTDOCTORAL POSITION

Available immediately. Research related to neurocircuits underlying behavioral and endocrine responses induced by fearfulness. Candidates should have a Ph.D. degree and experience in the area of neurobiology. Competitive salary and fringe benefits. Send letter of application and curriculum vitae to: **Ned H. Kalin, M.D., Department of Psychiatry, 600 Highland Avenue, Madison, WI 53792-2475** by 22 May 1992. Names of applicants and nominees cannot be kept confidential. *The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.*

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M.D.-SCIENTIST/Ph.D.
DIVISION OF NEPHROLOGY
CEDARS-SINAI MEDICAL CENTER
UCLA SCHOOL OF MEDICINE

The Division of Nephrology at Cedars-Sinai Medical Center (UCLA affiliate) is offering a full time position for an M.D. or Ph.D. scientist. The Ph.D. position requires a strong background in cell biology research in the area of membrane transport and intracellular measurements of fluorescent signals. The M.D. position is open to a board certified nephrologist. It requires a strong academically oriented background in teaching as well as minimum of three years experience in clinical and/or basic research. Applicants will be eligible for academic appointment at UCLA School of Medicine. The position is well funded with a spacious lab in a brand new research building. Applicants should submit curriculum vitae to:

Jacob Green, M.D.
Director, Division of Nephrology
Cedars-Sinai Medical Center, Room B-220
8700 Beverly Blvd., Los Angeles, CA 90048
Telephone (310) 855-4625

EE/AOE

**A highly qualified Pharmaceutical Industry
in Florence, Italy**

is seeking for an experienced scientist endowed with great organizing qualities to fill

**a challenging position equivalent to
Vice President Responsible for R & D.**

The successful candidate will be responsible for organizing the activities of the pharmacological research in the fields of chemical synthesis, pharmacology and molecular biology, providing for the ideation, planning and coordination of such activities. He will have an up-to-date knowledge of the expansion lines of the international pharmacological research. He will be assisted by internationally recognized experts already working in the company.

The Clinical Pharmacology Management, as well, reports directly to him.

The position is directly under the Chairman and CEO.

A scientific degree and qualifying experiences in primary pharmaceutical companies of international level are requested.

An attractive salary and cultural opportunities at the highest level are offered.

Qualified candidates are kindly requested to submit their curriculum vitae to:

A. Menarini srl- Pharmaceutical Industries
Via Sette Santi, 1
50131 Florence, Italy
Attn. Mrs. Michela Matarazzo

Fax No. (55) 588632

Correspondence will be kept strictly confidential.

**Center for
International Forestry Research**

**DIRECTOR
GENERAL**

Background

A new Center for International Forestry Research (CIFOR) is being established within the Consultative Group on International Agricultural Research (CGIAR) to conduct strategic forestry research aimed at the sustainable management of tropical forests in developing countries for the well-being of their people. The Australian Centre for International Agricultural Research (ACIAR) is implementing the establishment of CIFOR on behalf of the CGIAR. The headquarters of CIFOR will be located in a developing country within Asia. Until a decision is made on host country location, and facilities are available, CIFOR will operate temporarily from ACIAR in Canberra, Australia.

The Consultative Group on International Agricultural Research (CGIAR) is an informal association of 40 public and private sector donors that supports a network of 16 international agricultural research centers. The Group was established in 1971.

Today, over 1,000 scientists representing 60 different nationalities conduct research either at the 16 CGIAR centers or in some 40 developing countries where international scientists are posted to work in collaboration with their developing country partners.

Their approach is problem-oriented and multidisciplinary.

The Person

The foundation Director General will be a person of vision and proven capacity for management of scientific research in a complex international environment. Candidates should have significant international experience and a background relating to scientific research, forestry or development at senior executive level in government service, a development assistance agency, an eminent scientific institution or the private sector.

As chief executive of the Center, the Director General will be responsible to the Board of Trustees for the management of the Center, including finalisation of the strategic plan, staffing and implementation of the research program. The Director General will also be expected to liaise with other CGIAR Centers and international, regional and national institutions in the planning and implementation of the program.

Salary and Conditions

Salary and conditions of employment are commensurate with international standards for a senior position of this nature. The appointee will be expected to take up the position no later than January 1993. A fixed term appointment for up to five years in envisaged, subject to negotiation with the Board.

Further Information and Applications

Intending applicants should seek the full information package available from Dr D.I. Bevege at ACIAR. Written applications should address the selection criteria, include a full curriculum vitae and the names and addresses of three referees. Applications should reach the Centre Secretary, ACIAR, no later than 31 May 1992.

Contact Details

ACIAR	Telephone (61 6) 248 8588
GPO Box 1571	Fax (61 6) 257 3051
Canberra ACT 2601	Telex (61 6) AA62419
AUSTRALIA	E-Mail Dialcom 6007: IAR001
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BIOPROCESS ENGINEER

Hybritech Incorporated is a worldwide, research-based corporation applying monoclonal antibody and other leading edge technology to the development of human health care. We have an Engineering opportunity in our Manufacturing Technical Support Department.

The Engineer will be responsible for troubleshooting efforts, process improvement, and automation projects in the areas of protein purification, protein modification and bioreagent formulation. The individual will have specific responsibility for virus removal or inactivation process development and validation of these processes. Experience with the virus removal aspects of processes is required.

All candidates should have extensive chromatography experience, parenteral product manufacturing, process development or technical support experience, SPC and process monitoring experience. Experience in statistical approaches to experimental design is required. Strong technical leadership, strong communication skills, and a thorough understanding of cGMP are required. Process analytical chemistry and manufacturing operations experience is desired.

Candidates should have a BS/MS/PhD with 3 to 5 years of industrial experience in parenteral bioreagent manufacturing, technical service, or bioreagent process development.

Hybritech's investment in facilities, R&D and human resources reflects our commitment to remain in the forefront of monoclonal antibody technology and related fields. Our salaries and benefits also reflect that commitment. Please direct your resume to: TV/BE/SC/5-1-92, HYBRITECH INCORPORATED, P. O. Box 269006, San Diego, CA 92196-9006. We are committed to diversity in our workforce/EOE.



UNIVERSITY COLLEGE DUBLIN DEPARTMENT OF BIOCHEMISTRY

Assistant Lecturer/College Lecturer

One Permanent Post (Ref: 34/92)
Closing Date: Thursday, 21 May 1992

Applications are invited for the above full-time post. The appointment will be made at the level of Assistant Lecturer or College Lecturer.

The successful candidate will have demonstrated the ability to pursue a vigorous research programme in any field of Biochemistry.

The current salary scales are:

Assistant Lecturer:	IR£12,397– IR£20,008
College Lecturer:	IR£19,326– IR£28,393

Entry point on the relevant scale will be in accordance with qualifications and experience.

Prior to application, further information (including application procedure) should be obtained from The Personnel officer, University College Dublin, Belfield, Dublin 4, Ireland quoting appropriate reference number. Telephone enquiries: +353-1-2693244 exts. 1436/1409. Fax: +353-1-2694409.

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NEURO-ONCOLOGIST INSTRUCTOR (RESEARCH TRACK)

Research scientist sought for entry-level faculty position in Neuro-oncology Laboratory. Duties include the diagnosis and classification of central nervous system tumors (pediatric) and the isolation of nucleic acids from tumor surgical specimens for molecular biological experimentation. M.D. or M.D./Ph.D. sought with 3 years experience in neuropathology involving diagnosis/classification of CNS tumors, human cell culture technique involving assessment of in vitro chemosensitivity analysis of tumor cells by measurement of 3H-TdR incorporation, flow cytometry, Southern/Northern blotting techniques, polymerase chain reaction procedures, cloning/DNA sequencing of PCR products and associated techniques related to the construction of recombinant DNA molecules. Degreed candidates with appropriate experience in advanced training programs will be considered. Starting salary—\$25,000. Submit letter and curriculum vitae to Georgia Department of Labor (address)* by May 30 deadline. EEO/AA, M-F.

*Job Order # GA 5537084
1275 Clarendon Avenue, Avondale Estates, GA 30002 or to the nearest Georgia Job Service Center.

POSITIONS OPEN

UNIVERSITY OF FLORIDA BRAIN INSTITUTE SPINAL CORD REGENERATION RESEARCH PROGRAM

POSTDOCTORAL POSITIONS are immediately available as part of an NIH- and state of Florida-funded multidisciplinary program focused on spinal cord injury and repair being conducted in the Departments of Neuroscience and Neurological Surgery. Emphasis is on therapeutic interventions and their potential impact on various behavioral/neurophysiological correlates of motor, sensory, and autonomic change precipitated by spinal cord trauma. Principal areas of interest include: spasticity, sensory dysfunction, segmental circuits subserving sexual reflexes, magnetic resonance imaging/spectroscopy, and neural tissue transplantation biology. To complement and expand these projects, individuals are being sought having expertise in any of the following basic areas: transplantation immunology, contemporary neuroanatomical techniques (i.e., immunocytochemistry, tract-tracing), molecular biology (especially pertaining to growth factor chemistry or gene cloning and related techniques), neuropharmacology, electrophysiology, NMR spectroscopy, tissue culture, or behavioral analysis. Other areas deemed to be relevant to these basic interests also will receive careful consideration by the selection committee. Applicants must have a Ph.D. or M.D. degree and preference will be given to individuals with a background in neural regeneration/plasticity research. Closing date is 1 June 1992 or until available positions have been filled. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: **Paul J. Reier, Ph.D., University of Florida College of Medicine, Department of Neurological Surgery, P.O. Box 100265, Gainesville, FL 32610-0265. An Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS. USDA, Agricultural Research Service (ARS), Meat Animal Research Center, Clay Center, Nebraska, has postdoctoral-research associate positions available immediately to investigate a swine model for inherited neoplasms with potential defects in differentiation control and tumor suppressor genes. Candidates with a background in genetics/molecular biology and experience in molecular biologic techniques are encouraged to apply. Excellent facilities and established reference families provide a unique opportunity to identify genes involved in tumor initiation and regression. Minimum starting salary: \$32,423. Send curriculum vitae and names of three references to: **Dr. Craig W. Beattie, Roman L. Hruska U.S. Meat Animal Research Center, P.O. Box 166, Clay Center, NE 68933. Telephone: 402-762-4359; FAX: 402-762-4148. USDA-ARS is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available for **RESEARCH SCIENTIST** with recent Ph.D. in our Plasma Derivatives Laboratory. Work involves studying the expression of human proteins in transgenic animals. Knowledge of molecular biology required, background in protein purification or transgenic animals beneficial. We provide a highly stimulating research environment with performance-oriented, competitive salaries. Send curriculum vitae, including a summary of research accomplishments and publications, and the address and telephone number of three references to: **Henryk Lubon, Ph.D., Holland Laboratory, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855. Equal Opportunity Employer/M/F/V/H.**

POSTDOCTORAL POSITIONS IN ECOLOGY. Two postdoctoral positions exist at Miami University, beginning in July or September 1992. Appointments are 1 year with a possible year extension. One position is with Dr. Michael Vanni on aquatic food web interactions, using experimental and/or modeling approaches. The other position is with Dr. Orle Loucks on modeling nutrient flows or investigating environmental effects on soil invertebrates. Send applications, indicating experience and interests, curriculum vitae, and three reference letters to: **Chair, Department of Zoology, Miami University, Oxford, OH 45056 by 25 May 1992; call 513-529-1677 for information. Equal Opportunity/Affirmative Action Employer.**

M.D.-SCIENTIST/Ph.D.
DIVISION OF NEPHROLOGY
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The Division of Nephrology at Cedars-Sinai Medical Center (UCLA affiliate) is offering a full time position for an M.D. or Ph.D. scientist. The Ph.D. position requires a strong background in cell biology research in the area of membrane transport and intracellular measurements of fluorescent signals. The M.D. position is open to a board certified nephrologist. It requires a strong academically oriented background in teaching as well as minimum of three years experience in clinical and/or basic research. Applicants will be eligible for academic appointment at UCLA School of Medicine. The position is well funded with a spacious lab in a brand new research building. Applicants should submit curriculum vitae to:

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 AUSTRALIA

Telephone (61 6) 248 8588
 Fax (61 6) 257 3051
 Telex (61 6) AA62419
 E-Mail Dialcom 6007: IAR001
 CGNET 157: CGI034

POSITIONS OPEN

POSTDOCTORAL POSITION, MOLECULAR ENDOCRINOLOGY. Research in molecular aspects of growth regulation involving studies on the avian growth hormone receptor gene structure and regulation of expression. Experience in molecular biology and/or endocrinology desirable. Send curriculum vitae and list of three references to: **Dr. Joan Burnside, Department of Animal Science, University of Delaware, Newark, DE 19717. FAX: 302-831-3651.**

POSTDOCTORAL FELLOWSHIP

A position is available in a SUNY Health Science Center/V.A. research program for a Ph.D. or M.D. to characterize the biochemical and genetic properties of binding proteins and enzymes involved in folate metabolism. Send curriculum vitae to: **Dr. Sheldon Rothenberg, Division of Hematology/Oncology, 800 Poly Place, Brooklyn, NY 11209. Equal Opportunity Employer.**

INTERNATIONAL FELLOWSHIP

The Dan Charitable Trust Fund for Research in Biological Sciences provides financial support for collaborative research between Japan and other countries or participation in international conferences or workshops held in Japan or other countries. A total of six fellowships (1- to 3-month duration) will be awarded every year. Applications for fellowships must be submitted to the address listed below by 31 August 1992. For more information, write: **Eiji Nakata, The Dan Charitable Trust Fund for Research in the Biological Sciences, Nippon Trust Bank, 3-1-8 Nihonbashi, Chuo-ku, Tokyo 103, Japan.**

CLINICAL CHEMISTRY POSTDOCTORAL FELLOWSHIPS at Mayo Clinic. Seeking applicants for 2-year ComACC-approved fellowship directed toward qualified individuals (Ph.D. or M.D. required) pursuing careers in clinical chemistry. Individuals completing the program are eligible for certification by the American Board of Clinical Chemistry. Applications on file by 31 October 1992 will be considered for appointment beginning in July 1993. Contact: **Mary F. Burritt, Ph.D., Section of Clinical Biochemistry, Mayo Clinic, Rochester, MN 55905** for more information. *Mayo Foundation is an Affirmative Action/Equal Opportunity Educator and Employer.*

THE UNIVERSITY OF QUEENSLAND SENIOR RESEARCH FELLOW/ RESEARCH FELLOW

National Research Centre for Environmental Toxicology is sponsored jointly by the National Health and Medical Research Council, Queensland Health and The University of Queensland. Its principal function is to carry on basic and applied research into the fate and consequences for man of environmental toxicants. The centre fields of research will be epidemiology, biological monitoring, ecotoxicology and toxic mechanisms. The successful applicants for the present positions will be required to establish a research group in one or other of these fields. While applications will be welcome from any of these areas of scientific interest, preference may be given at this stage to applicants from the fields of biochemical-effect monitoring and mechanisms of toxicity. For both positions, minimum academic qualifications required for an appointment is a Ph.D. The kind of background training and experience desired for the biological monitoring position should be analytical chemistry or biochemistry. For mechanisms of toxicity, the applicant should have substantial training in biochemistry with a special interest in molecular biology. Salaries are: Senior Research Fellow A\$50,225 to A\$57,913 per annum and Research Fellow A\$41,000 to A\$48,688 per annum. The initial 5-year-funding period for the centre extends to 31 December 1995 and the appointments of research staff to the centre initially will extend from the date of appointment until 31 December 1995. The closing date for applications is 31 May 1992. For further information, please contact: **The Director, Professor A. A. Seawright, telephone: 61 7-274-9001 (work) or 61 7-374-2858 (home) and FAX: 61 7-274-9003.** Applications quoting reference number 16992 should be forwarded to: **The Director, Personnel Services, The University of Queensland, Brisbane, Queensland 4072, Australia. Equal Opportunity in Employment is university policy.**

Biology

Opportunities with Monsanto Company

Gene Expression

Explore this opportunity to join Monsanto Company, a recognized world leader in plant science biotechnology. Our laboratories in Chesterfield, a suburb of St. Louis, provide state-of-the-art facilities for conducting research in plant biochemistry and molecular biology.

Monsanto is actively applying this research toward improving crop productivity. We are expanding this effort and are hiring bright, innovative scientists with experience in gene expression.

A position is available in the plant protection group of the new products division in the area of cloning and expression analysis of genes for controlling insects and fungal pathogens. This position is part of a multi-disciplinary team leading to commercialization of insect- and disease-resistant crops.

Qualifications include a BS/MS in molecular biology or biochemistry or appropriate discipline with broad technical experience in molecular biology. You must have substantial experience in cloning and expression analysis of prokaryotic/eukaryotic genes. Excellent interpersonal and communication skills are required.

We offer a highly competitive salary and benefits/relocation package. Please send your Curriculum Vitae, names of three references and a statement of your career and/or research interests to: **Mrs. Marion K. Doyle, Supervisor, Human Resources-O3H, Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167. EOE. M/F/D/V.**

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■ Pharmacologist

A Ph.D. with 3+ years' post doctoral or industry experience using animal models for the testing of synthetic compounds or recombinant proteins.

■ Protein Biochemist

A Ph.D. in Biochemistry or equivalent is required, with post doctoral or industry experience in protein purification preferred

■ Biochemist

A Ph.D. in Biochemistry or equivalent is required, with post-doctoral or industry experience in ligand-receptor binding and mechanisms of signal transduction preferred.

■ Molecular Biologist

A Ph.D. in Molecular Biology required. A minimum of 2 years' post doctoral or industry experience preferred.

■ Immunologist

A Ph.D. or M.D. degree and 2-4 years' post doctoral experience in the area of molecular or cellular immunology are preferred, as is experience in the study of regulatory mechanisms that control the immune response to antigens in vitro and in vivo. Experience in complement system and its regulation is a plus.

Work with top minds in your field in a state-of-the-art R&D environment as you advance the course of biotechnology with us. For more information about professional growth at CytoMed—and the competitive salary and comprehensive benefits we provide—send resume in confidence to: **HR Specialist, Dept. SCI, CytoMed, Inc., 840 Memorial Drive, Cambridge, MA 02139. An Equal Opportunity Employer.**



CytoMed

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14–17 October 1992 ✧ The Acropolis ✧ Nice, France

Sponsored by The Human Genome Organisation and *Science* Magazine

Join your colleagues from around the world as they meet on the balmy Mediterranean coast to explore the latest developments in human genome research.

Don't miss **Human Genome '92**, the fourth annual conference on the Human Genome Project sponsored by the Human

Genome Organisation and *Science* magazine (published by the American Association for the Advancement of Science).

After three years in San Diego, the conference is moving to beautiful Nice, France; great discounts on unrestricted air fares are available. For details, use the coupon below.

Tentative Program

Mapping

(Thursday, 15 October, 8:30am–noon)

Bertrand R. Jordan (chair), *INSERM-CNRS*

Jean Weissenbach, *CNRS, Inst. Pasteur*

Daniel Cohen, *Ctr. d'Etude du Polymorphisme Humain*

Malcolm Ferguson-Smith, *Cambridge Univ.*

Cassandra L. Smith, *Univ. of California, Berkeley*

Yoshihide Hayashizaki, *Natl. Cardiovascular Research Inst.*

Human Genetic Diversity

(Thursday, 15 October, 4:00pm–7:00pm)

P. Fasella (chair), *Comm. of European Communities*

L.L. Cavalli-Sforza, *Stanford Univ.*

A. Piazza, *Univ. of Torino*

Alec J. Jeffreys, *Univ. of Leicester*

Kenneth Kidd, *Yale Univ. School of Medicine*

Svante Paabo, *Univ. of Munich*

Julia Bodmer, *Imperial Cancer Research Fund*

Applications of the Human Genome Project

(Friday, 16 October, 8:30am–noon)

Jean Dausset (chair), *Ctr. d'Etude du Polymorphisme Humain*

John Hardy, *St. Mary's Hospital Medical School*

Francis Collins, *Univ. of Michigan*

Yusuke Nakamura, *Japanese Fdn. for Cancer Research*

Hans-Hilger Ropers, *Univ. of Nijmegen*

Ulf Landegren, *Univ. of Uppsala*

Contributed Papers

(Friday, 16 October, 4:00pm–7:30pm)

Howard M. Cann (chair), *Ctr. d'Etude du Polymorphisme Humain*

Speakers will be chosen from poster session abstracts.

Model Organisms

(Saturday, 17 October, 8:30am–noon)

George Carle (chair), *Univ. of Nice*

Marc van Montagu, *Univ. of Ghent*

Piotr Slonimski, *CNRS*

John Sulston, *MRC Lab of Molecular Biology*

Steven Tanksley, *Cornell Univ.*

Eric Lander, *Whitehead Inst.*

Michael Ashburner, *Cambridge Univ.*

cDNA Sequences & Intellectual Property

(Saturday, 17 October, 4:00pm–7:30pm)

Lennart Philipson (chair), *EMBL*

J. Craig Venter, *Natl. Inst. of Health*

Kenichi Matsubara, *Osaka Univ.*

Rebecca Eisenberg, *Univ. of Michigan*

Charles Auffray, *Inst. d'Embryologie du CNRS*

Andrei Mirzabekov, *Soviet Academy of Sciences*

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Charles R. Cantor, *DOE Human Genome Project*

Jean-Louis Mandel, *CNRS/LGME, INSERM*

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- ☐ I'm interested in exhibiting. Send an exhibit prospectus.
- ☐ Please send details about presenting a poster.

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Clinical Tenure Track Position In Neuropharmacology Using Positron Emission Tomography.

A new tenure track position is available beginning in July 1992 or July 1993 in the Laboratory of Neurosciences, S.I. Rapoport, MD, Chief. This position provides an excellent opportunity for neurologists, psychiatrists, clinical pharmacologists or other clinicians who plan a research career in *in vivo* brain imaging and neuropharmacology. Graduates of this program are currently directing imaging and Alzheimer's programs across the country.

Research training focuses on the use of positron emission tomography to measure drug modulation of human brain function, metabolism, and blood flow at rest and during cognitive stimulation in relation to aging and disease (e.g., Alzheimer's disease, geriatric depression, Down syndrome and other retardations). The candidate will be responsible for writing and conducting clinical protocols and will have limited clinical responsibilities on an 8-bed clinical research unit.

MD degree and medical license are required (foreign physicians must be ECFMG certified) and previous experience in clinical pharmacology and pharmacokinetics is required. Starting salary commensurate with training and experience. For further information, contact M. B. Schapiro, MD, Chief, Brain Aging and Dementia Section, Laboratory of Neurosciences.



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METRA BIOSYSTEMS is the leading company in the development of diagnostic products for diseases and degenerative conditions of the bone and cartilage. We're a young company taking a strong position developing immuno-diagnostic tools for early diagnosis of osteoporosis, rheumatoid arthritis and osteoarthritis. If you have the skill and experience to help support our growth and scientific goals, send us your resume today.

DEVELOPMENT CHEMIST

This challenging position is dedicated to the development of immunoassay conjugates which play a significant role in controlling product quality. Specifically, you will be responsible for all aspects in the development of a conjugate which includes designing the chemical approach, optimizing the conjugation procedure and validating assay performance. As part of the transfer to manufacturing, the chemist is responsible for pilot lot preparations as well as assuring compliance to performance specifications. Your skill set should include a BS/MS/PhD in Chemistry or Biochemistry; 2-6 years' R&D experience in the immuno-diagnostics industry; expertise in protein chemistry; and the ability to work independently and coordinate with other chemists.

RESEARCH SCIENTIST

Requirements include a PhD in Biological Sciences and 0-4 years' R&D experience in protein chemistry, enzymology or cell biology. The ideal candidate will have excellent analytical and communication skills, as well as experience with glycoproteins/connective tissue molecules and protein purification and characterization.

RESEARCH ASSOCIATES

Positions are available for individuals with a BS/MS in Biological Sciences, Chemistry or Biochemistry and 2-4 years' R&D experience in either protein chemistry, enzymology and cell biology or HPLC method development for proteins and small molecules.

SR. SCIENTIST - DEVELOPMENT

This position is key in the development of immunoassays for bone markers. Specific responsibilities include the establishment of technical feasibility, optimization of assay performance, and coordinating the manufacturing transfer phase. Additionally, you will collaborate with investigators to validate the clinical utility of the markers. Requirements include a PhD or equivalent in Chemistry, Biochemistry or Biological Sciences, 4-6 years' experience in immuno-diagnostics and all phases of immunoassay product development.

METRA BIOSYSTEMS offers the excitement of a new, rapidly growing start-up, as well as a competitive salary and benefits package, including equity participation. Please send us your resume: METRA BIOSYSTEMS, 3181 Porter Drive, Palo Alto, CA 94304-1213. Or fax to: (415) 494-9138. Principals only, please. We are an equal opportunity employer.

**METRA
BIOSYSTEMS**
New tools for
bone metabolism
research.

We're working to prepare her for our future.



Children are our greatest hope. Their education is our greatest concern.

At the American Association for the Advancement of Science we're investing in our future with Project 2061.

This national program, sponsored by the AAAS, is designed as a blueprint for science education. Project 2061 is based on the premise

that students learn best when connections are made between fundamental scientific theories and real-life applications. From rural Georgia to San Francisco; from Philadelphia to suburban Wisconsin, the AAAS is working with teachers to design the science curriculum of the future.

Although just a beginning, AAAS and its members are

not only dedicated to the advancement of science today, but through Project 2061 and other educational programs, to the continual advancement of science in years to come.



**AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE**

Rhône-Poulenc Rorer Research and Development, a global leader in pharmaceutical research, currently has the following opportunities available:

RESEARCH SCIENTIST **Cardiovascular Biology/Thrombosis**

The candidate chosen for this position should possess a Ph.D. in Pharmacology or Physiology with 2 years of post doctoral experience in *in vivo* models of Thrombosis. The successful candidate will establish models of Thrombosis as well as propose novel approaches for the treatment of Thrombotic disorders. Strong interpersonal and communication skills are required. (Position #92R-104-LLS)

CHEMICAL MICROSCOPIST **Analytical & Physical Chemistry**

An immediate opening exists for an experienced individual in chemical microscopy. A B.S. in Chemistry with 3-5 years, or M.S. with 2-3 years, formal training in chemical microscopy is required. The selected candidate should possess a working knowledge of optical polarized light microscopy and photomicrography. The primary job function would be the morphological, optical and thermal characterization of drug substances. Some work with computerized image analysis measurements would be helpful. Secondary job functions may include operation of FTIR, UV, or fluorescence spectrometers. The primary job function is optical chemical microscopy plus maintaining the microscopy lab and participating in its expansion. (Position #92R-012-IS)

We offer a competitive salary and benefit plan. Interested candidates should apply by submitting a current resume, including salary history and desired salary requirements. Responses should be forwarded, indicating position #, to: **RHÔNE-POULENC RORER RESEARCH & DEVELOPMENT, Human Resources Dept., 640 Allendale Road, King of Prussia, PA 19406. Attn: LLS, (Indicate Position#). EEO, M/F/D/V.**



Veterinary Pathologist

Genentech, Inc. has an opportunity for a Veterinary Pathologist for our Safety Evaluation Department. The position offers a balance of investigative pathology research and regulatory toxicologic pathology support for products developed through recombinant DNA technology. Additionally, you will design and conduct studies, perform morphologic evaluations and prepare applicable reports for internal use or scientific publications.

Requirements include a DVM/VMD with advanced research training, a PhD or equivalent in Comparative Pathology and Board Certification in Veterinary Pathology. Proven research productivity as demonstrated by publication record is essential. Two years' experience in toxicologic and experimental pathology is preferred. Individuals with expertise in neuropathology or immunohistochemistry are encouraged to apply.

We offer an excellent salary and benefits package. For immediate consideration, please send your resume to Genentech, Inc., Human Resources, Dept. NS/TT, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment. Women and minorities are encouraged to apply.

Genentech, Inc.

UNIVERSITY OF OXFORD



LINACRE PROFESSORSHIP OF ZOOLOGY

The electors intend to proceed to an election to the Linacre Professorship of Zoology with effect from 1 October 1993 or such later date as may be arranged.

The stipend of the Professorship is at present £33078 per annum. A pensionable allowance (currently £4408) will be added in respect of the duties as head of the Department of Zoology for any periods during which these are assigned to the Professor.

The Linacre Professor will be required to assume the duties of the headship of the Department of Zoology for five years from 1 October 1993.

A non-stipendary professorial fellowship at Merton College is attached to the professorship.

Applications (eight copies or one from overseas candidates), naming three referees, should be received not later than 1 June 1992 by the Registrar, University Offices, Wellington Square, Oxford, OX1 2JD, England from whom further particulars may be obtained.

The University is an Equal Opportunity Employer



MICROBIOLOGICAL ASSOCIATES, INC.

STUDY DIRECTOR

Microbiological Associates is a leading international provider of toxicological testing services to the NTP and the chemical and pharmaceutical industries. Our growing businesses and contract base have provided an immediate opportunity for a Ph.D. to join our staff of experienced scientists.

The Study Director will oversee mammalian toxicology studies in rodents and help in the development of new *in vivo* assays. Toxicology degree and 2-5 years experience in a GLP-compliant industry or contract lab preferred. This position will be responsible for supervising lab staff, communication with clients and project investigators, and the development of research programs.

We offer a comprehensive compensation package that includes relocation. Please send your C.V. to:

**MICROBIOLOGICAL ASSOCIATES,
INC.**

9900 Blackwell Road
Rockville, MD 20850
Fax 301/738-1036

EOE/m/f/h/v

Philip Morris Fellow For Aids Research

Philip Morris is sponsoring a 3-year Postdoctoral Fellowship for basic research related to AIDS at the Lindsley F. Kimball Research Institute of the New York Blood Center. Areas of research include: molecular and biochemical virology, epidemiology and strategies for vaccine development. M.D. and/or Ph.D. required. Please send resumes and the names of three references to: **Dr. John W. Adamson, President, New York Blood Center, 310 East 67th Street, New York, NY 10021, USA.** An equal opportunity employer M/F.

 **Lindsley F. Kimball
Research Institute**

*A Division of the New York Blood Center
Where concern for the community comes first*

POSTDOCTORAL FELLOWSHIPS

Fanconi Anemia Research Fund, Inc.

is pleased to announce postdoctoral fellowships in the amount of \$25,000 to be awarded for research into

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- biochemical basis for FA
- hematopoiesis • gene therapy
- or other topics relevant to

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For application materials or further information please contact:

Fanconi Anemia Research Fund, Inc.
66 Club Road, Suite 390
Eugene, OR 97401
tel: 503-687-4658
FAX: 503-484-0892

DIRECTOR, UCR/UCLA PROGRAM IN BIOMEDICAL SCIENCES DIVISION OF BIOMEDICAL SCIENCES UNIVERSITY OF CALIFORNIA, RIVERSIDE

Responsible for leadership of the research and educational activities of the Division of Biomedical Sciences at UCR. Duties include leadership of and active participation in the research activities of the Divisional faculty at UCR and the Ph.D. program in Biomedical Sciences; supervision of an accelerated 7-year educational program leading to the B.S. degree from UCR and the M.D. degree from the UCLA School of Medicine; serving as Chairperson of the Division of Biomedical Sciences (15 ladder-rank faculty positions in basic Medical Sciences disciplines at UCR and seven adjunct positions at the associated Harbor/UCLA Medical Center teaching facility); and maintaining liaison among UCR, UCLA, Harbor/UCLA Medical Center, the UC Office of the President, and other applicable state and national agencies. Requires: (a) Doctorate degree (Ph.D., M.D. or equivalent); (b) A strong and active research program in biomedical sciences; (c) Familiarity with medical school basic sciences instruction; (d) Evidence of success in managing strong academic programs; (e) Qualification for appointment as a Full Professor in the University of California system. Duties begin in 1993.

Please send nominations or letter of application, resume and names of at least three references by June 15, 1992, to: **BMSP Program Director Search Committee, Division of Biomedical Sciences, University of California, Riverside, CA 92521.**

The University of California is an Equal Opportunity/Affirmative Action Employer. Female and minority candidates are encouraged to voluntarily identify themselves.

POSITIONS OPEN

PH.D. PROGRAM/NEUROBIOLOGY

Doctoral training position in neurobiology at Wesleyan University. The Ph.D. program is characterized by close faculty-student interaction. Active research programs in behavioral genetics, neurophysiology, neuroethology, cellular and developmental neurobiology and neuroendocrinology. Additional faculty strengths include genetics, cell and developmental biology and molecular biology. The graduate student support is a 12-month stipend of \$11,718 plus tuition waiver dependency allowances. Contact: Ms. Peggy Miano, Graduate Admissions, Department of Biology, Wesleyan University, Middletown, CT 06459, or call 203-347-9411, ext. 2656.



POSTDOCTORAL POSITIONS BIOCHEMISTRY AND CELL BIOLOGY

Two POSTDOCTORAL RESEARCH FELLOWSHIP positions available immediately to participate in interinstitutional collaborative studies concerning: (1) protein prenylation and isoprenoid lipid metabolism and transport, and (2) isolation/characterization of endogenous retinal lectins, membrane precursor trafficking, and the role of protein glycosylation in membrane assembly in retinal photoreceptor cells. Experience in protein and lipid biochemistry essential. Send curriculum vitae, copies of key publications, and names of three references to: Dr. Steven J. Fliesler, Bethesda Eye Institute, Saint Louis University School of Medicine, 3655 Vista Avenue, St. Louis, MO 63110.

An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH FELLOWSHIPS THE UNIVERSITY OF TEXAS HEALTH SCIENCES CENTER AT SAN ANTONIO

Applications are invited from highly motivated individuals (M.D., Ph.D. or both) interested in the applications of cellular and molecular biologic techniques to the study of disease. Research is targeted to pivotal mechanisms in the development of atherosclerosis and coronary heart disease. One major focus of our group's research effort is gene regulation, particularly in relation to inflammatory mediators, endothelial leukocyte adhesion molecules (ELAM-1 VCAM-1), and monocyte chemoattractants including monocyte chemoattractant protein-1 (MCP-1). These research fellowships will provide successful candidates an opportunity to work in a center of excellence, and benefit from the delightful ambience of the city of San Antonio. *Applicants must be U.S. citizens or have permanent resident status.* Detailed applications, including the names of three referees, should be submitted to:

Colin J. Schwartz, M.D., FRACP
Department of Pathology, The University of Texas
Health Science Center (UTHSCSA)
7703 Floyd Curl Drive
San Antonio, TX 78284-7750
FAX: 512-567-3105

UTHSCSA is an Equal Opportunity Employer, and minority applicants are encouraged to apply.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE. Position available immediately to study role of cholesteryl ester transfer protein and apolipoproteins in lipoprotein metabolism and atherosclerosis. Approaches involve site-directed mutagenesis, overexpression/crystallization, promoter analysis and transgenesis. Background in biochemistry or molecular biology preferred. Send curriculum vitae to: Dr. Alan Tall, Division of Molecular Medicine, Department of Medicine, 630 West 168th Street, New York, NY 10032. *We take Affirmative Action toward Equal Opportunity.*

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE. To participate in studies on the biochemistry and molecular biology of heart mitochondrial enzymes. Candidates must have a Ph.D. with experience in protein purification, peptide synthesis and antibodies production. Please send curriculum vitae and three references to:

Jose Marin, M.D.
Pediatric Cardiology Group of New Jersey
2130 Millburn Avenue
Maplewood, NJ 07040

POSTDOCTORAL RESEARCH ASSOCIATE. Position available to study immunochemical and cellular aspects of mucosal immunity. Experience in cellular immunology preferred. Background in modern molecular biology is also desirable. Send curriculum vitae and names of three references to: Dr. Paul C. Montgomery, Professor and Chair, Department of Immunology and Microbiology, Wayne State University Medical School, 540 East Canfield Avenue, Detroit, MI 48201. *Wayne State University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE to study molecular systematics of insects. Requires Ph.D. in biological science field and strong skills in DNA technology. Competitive salary and benefits. Send application including curriculum vitae and names of three individuals who may be contacted for references by 1 June 1992 (or until suitable candidate applies thereafter) to: Dr. Thomas O. Powers, Department of Plant Pathology, University of Nebraska-Lincoln, Lincoln, NE 68583-0816. Telephone: 402-472-5726. *Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE

The Division of Physiology of the Department of Medicine at the University of California, San Diego (UCSD), is seeking an electron microscopist to participate in research in peripheral tissue gas exchange with particular emphasis on structure-function correlations in muscle oxygen supply and metabolism. Experience in all phases of transmission electron microscopy from tissue preparation to sampling of micrographs for morphometry and demonstrated skills in quantitative analysis including statistics are required. M.S. or Ph.D. degree preferred. Send curriculum vitae, description of research experience and name of three references to: Dr. Odile Mathieu-Costello, Department of Medicine, 0623, UCSD, La Jolla, CA 92093-0623. Application deadline is 31 May 1992. FAX: 619-534-4812.

RESEARCH ASSOCIATE POSITIONS: The University of Texas at Dallas, Richardson, Texas. (1) Center for Quantum Electronics: Interface of material science with quantum electronics. Prior experience with action of laser radiation on materials and laser deposition, adhesion and mechanical properties of thin films and techniques for material characterization desirable. (2) Molecular and Cell Biology: Funded studies of cellular and molecular aspects of gene expression, growth regulation, organelle biogenesis and nucleic acid and protein structure. Submit curriculum vitae and names of three references with short explanation of relevant background and interest (*Indication of sex and ethnicity for statistical purposes requested, but not required*) to: Academic Search 2000, The University of Texas at Dallas, P.O. Box 830688, Richardson, TX 75083-0688. *The University of Texas at Dallas is an Equal Opportunity/Affirmative Action Employer.*

SENIOR RESEARCH ASSOCIATE. Position available in neurophysiology of ion channels. Qualifications include M.D. and/or Ph.D. (physiology); minimum of 10 years of research experience in cellular electrophysiology and drug action (e.g., opiates) on mammalian neurons, evidenced by publication of at least 15 research papers (of which 10 as primary author) in peer-reviewed journals; experience with in vivo and in vitro preparations, autonomic and central neurons, at intracellular, whole-cell and single-channel levels; at least 5 years of experience in teaching medical and/or graduate students (position includes teaching physiology to medical and/or graduate students). Send curriculum vitae and names of three references within 30 days to: Richard Sessions, Administrative Office, Vollum Institute, Oregon Health Sciences University L-474, Portland, OR 97201-3098. *Affirmative Action/Equal Opportunity Employer.*

BRANCH CHIEF

The Thrombosis and Hemostasis Branch of the Division of Blood Diseases and Resources, National Heart, Lung, and Blood Institute, National Institutes of Health (NIH), PHS, seeks a Branch Chief in Bethesda, Maryland.

The Branch Chief will be responsible for supervision of all branch scientific and administrative activities relevant to its mission of research in thrombosis and hemostasis. This includes providing leadership and coordination of all research activities, basic, applied, and clinical, in the areas of hemostasis and of thromboembolic, hemorrhagic, and platelet disorders; development of scientific and conference and workshop initiatives; development of "state of science" reviews on topics of importance to the Branch's programs; and serving as the Institute's liaison to other components of the National Heart, Lung, and Blood Institute, other Institutes, as well as public, private, and international organizations whose activities are related to the mission of the Institute.

Specific requirements are: 1) an M.D. or Ph.D. degree or equivalent education and experience, plus experience in basic and/or clinical research. The position is Health Scientist Administrator (Biological Sciences), GM-601-15, or Medical Officer, GM-602-15, with a salary range of \$64,233 to \$87,784. In addition, candidates may be eligible for Physician's Comparability Allowance up to \$20,000. Candidates may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service. U.S. Citizenship required.

For further information or to submit curriculum vitae, contact:

John C. Hoak, M.D., Director
Division of Blood Diseases and Resources
National Heart, Lung, and Blood Institute
Federal Building, Room 516
7550 Wisconsin Avenue
Bethesda, MD 20892
(301) 496-4868



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KAROLINSKA INSTITUTET

Postdoctoral research position in steroid receptor structural biochemistry

A postdoctoral position for work on the structure and function of the glucocorticoid receptor protein is available at the Department of Medical Nutrition, Karolinska Institutet. The project involves high level expression of the protein and structural analysis of the purified product. Expression of this protein, as well as individual domains, is ongoing using various different expression systems. Further work in this project will encompass scaling up expression of functional protein and its purification and thereafter structural analysis of the product.

The Department of Medical Nutrition is situated at Huddinge University Hospital within the Novum Research Centre. This project is carried out in active collaboration with two other departments within Novum, the Centre for Biotechnology and the Centre for Structural Biochemistry as well as in collaboration with KaroBio AB. Protein NMR-spectroscopy and X-ray crystallography facilities are available in house at the Centre for Structural Biochemistry.

Applicants for this position should have presented a PhD thesis within the field of molecular biology or protein biochemistry. A knowledge of eukaryotic expression systems or protein purification is an advantage. Applications should include a CV, a list of publications and two letters of reference. Send applications to:

Dr. Jan Carlstedt-Duke or Dr. Jan-Åke Gustafsson
Department of Medical Nutrition
Huddinge University Hospital F60, Novum
S-141 86 Huddinge
Sweden

POSTDOCTORAL SCIENTIST

Protein Chemistry

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has an opportunity in the Pharmaceuticals Science Department for a Postdoctoral Scientist. This individual will be responsible for identifying physical and chemical factors that influence the stability of biologically active macromolecules. The research will focus on measuring and relating thermodynamic properties of proteins and peptides to facilitate efficacious drug delivery.

Requirements include a Ph.D. in Biophysics, Physical Biochemistry, Chemistry, Pharmaceutical Chemistry or the equivalent; experience in calorimetry and kinetic analysis of reactions; a working knowledge of surface chemistry, protein properties, and analytical methodology. Postdoctoral positions are normally of two years duration. Publication of results is encouraged. The position is available in August/September.

Our state-of-the-art facility is located in suburban Philadelphia, near Valley Forge, PA. SmithKline Beecham provides a stimulating and challenging work environment based on creativity, commitment and teamwork. For confidential consideration, send your resume and the names of three references to: H.R. McConnell, M041, Employment Administrator, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. Equal Opportunity Employer. M/F/H/V.



SmithKline Beecham
Pharmaceuticals

SENIOR DIRECTOR

Center for Research in Medical Education

Merck & Co, Inc., a world leader in ethical pharmaceuticals, has established a new position within its Human Health Division to conceive, develop and present innovative systems, programs, and approaches for educating the practicing physician. These programs are intended to establish new standards for postgraduate medical education and provide practicing physicians highly stimulating learning experiences. This is an opportunity for an individual with an M.D., M.D./Ph.D., or Ph.D., with broad experience and national recognition for research in medical education, to achieve additional professional recognition and personal growth by creating programs of premier quality and content while meeting, and even exceeding, the professional needs of the practicing physician.

If you are interested in this unique position, please send your curriculum vitae, including list of publications, to **Dr. G.S. Levey, Senior Vice President, Medical & Scientific Affairs, Merck Human Health Division, P.O. Box 2000, Rahway, NJ 07065.** EEO/AA/VH Employer.

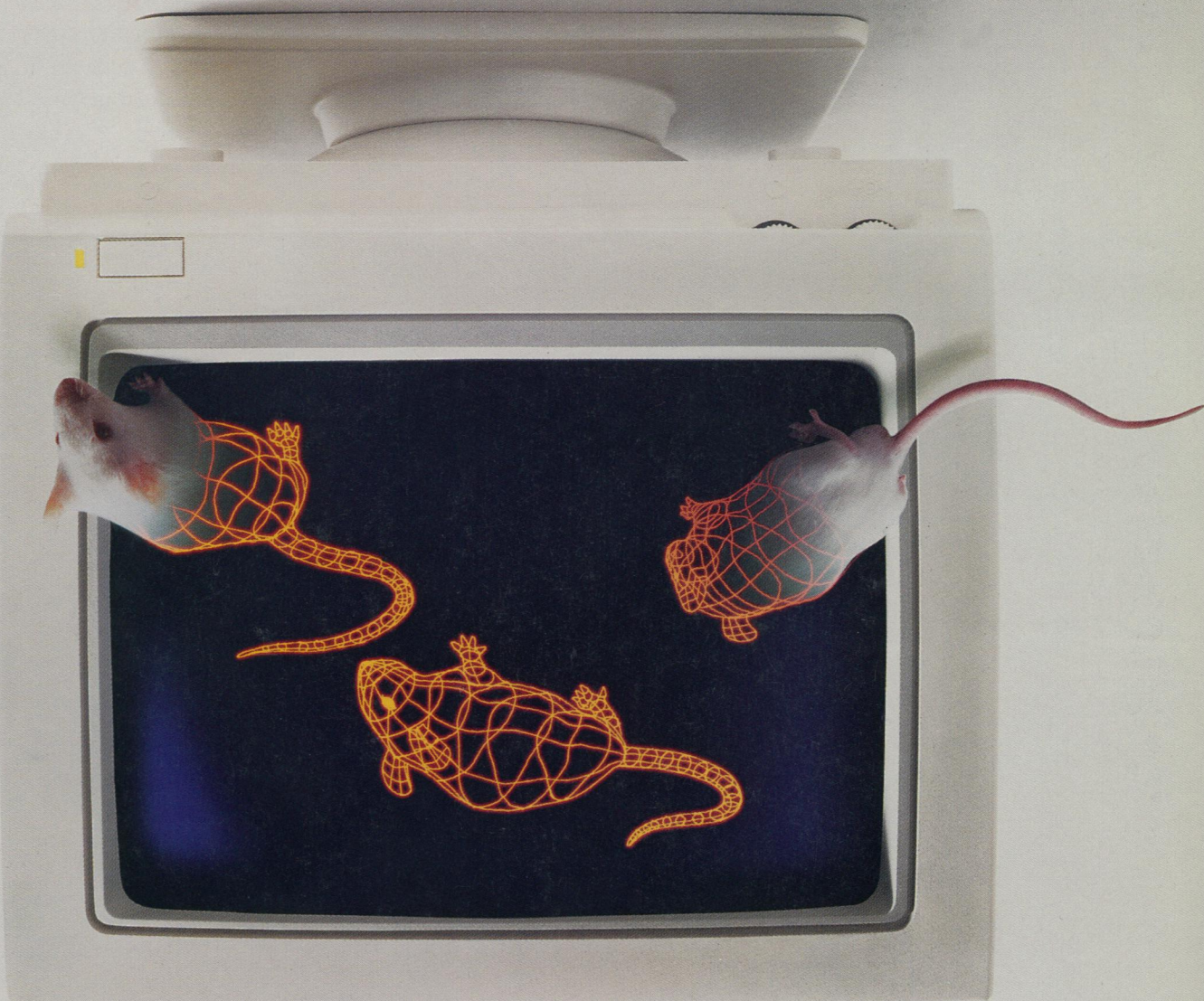


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