Scientists reluctant to incorporate nonradioactive labeling and detection into their research techniques have historically accused nonradioactive products of lacking sufficient levels of sensitivity. However, recent technological advancements — chemiluminescent detection, to be exact — have allowed select products to meet or exceed the sensitivity levels achievable with $^{32}$P labeling and detection.

New information identifies ideal techniques for nonradioactive labeling and detection.

Those products, part of the Genius™ System with Lumi-Phos™ 530 from Boehringer Mannheim, guarantee detection of 0.1 pg of target nucleic acid in less than one hour. In addition, they allow detection of single-copy genes in human DNA in less than 30 minutes when used in Southern blotting techniques.

Southern blotting: single-copy gene detection in 30 minutes

The accepted wait for accurate single-copy gene detection using $^{32}$P labeled probes has always been one to three days. Now identical results can be achieved in 30 minutes with the Genius System and its chemiluminescent substrate.

In addition, the probes are stable, allowing researchers to reuse them multiple times without relabeling. Furthermore, Southern blots developed with the Genius System can be repeatedly stripped and reprobed using the same procedures as the older radioactive method.

Library screening: positive colonies visible in one hour

Using probes labeled with the Genius System, researchers are detecting positive colonies and plaques within one hour versus the overnight exposures required with radioactive techniques.

Because the Genius System can use DNA, RNA or oligonucleotide probes, many research needs can be met with a single system. Probe labeling utilizes the same techniques currently employed to prepare radioactive probes, and multiple filters can be processed simultaneously.

Dot blots: guaranteed results in under one hour

With exposure times reduced from overnight to 30-60 minutes, critical answers are relayed quickly, helping research progress as soon as possible.

Performance is guaranteed as the Genius System products are function tested in dot blot (also referred to as slot blot) assays.

The unique digoxigenin-labeled probes are stable for at least one year and can be reused multiple times, offering savings in terms of the time and money normally spent relabeling decayed radioactive probes. By using the same probe, experimental variables are reduced and reproducibility between experiments is provided.

0.1 pg DNA Guaranteed

Technique-specific information and bibliography available upon request

To receive additional information about the Genius System products, their applications and specifications, or to receive a bibliography of publication references, call Boehringer Mannheim at 800-428-5433.

If you would like to speak directly with a specialist about your individual research needs, call 800-262-4911.
New CELLMAX™ QUAD Is Superior To All Cell Culture Systems.

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To create a better way to study and grow cells in vitro, we took the original in vivo process as our model.

We then duplicated it as closely as possible to produce the remarkable CELLMAX™ QUAD, a unique artificial capillary system that has been successfully used to support and grow fastidious primary cells and continuous cell lines employed in cell biology, immunology, hematology and oncology research.

Unlike conventional technologies, the CELLMAX QUAD simulates the highly efficient, three-dimensional function of the human capillary system.

In the CELLMAX QUAD, cells thrive on and around a network of artificial capillaries. Perfused with culture medium, these capillaries supply the cells with oxygen and nutrients as they carry away metabolic waste products and other growth inhibitors. The result is a more natural micro-environment that permits exceptionally dense cell growth, an important requirement for cells affected by intercellular communication and signaling.

The CELLMAX QUAD can simultaneously operate up to four independent cultures at different flow rates. It can accommodate various ready-to-use Cellco cartridges optimized for growth of a broad spectrum of cell types ranging from bone marrow to hybridomas. A compact, cost-effective system, the CELLMAX QUAD requires far less space, manipulation and materials than other culture technologies.

Learn more about the elegant cell culture system patterned on the most elegant of all. Call today for details about the CELLMAX QUAD, another first from Cellco.

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POSITIONS OPEN

ANIMAL PHYSIOLOGIST. Hofstra University Department of Biology invites applications for a tenure-track ASSISTANT PROFESSOR, beginning September 1992. Ph.D. required with postdoctoral training, and teaching experience preferred. Applicant is expected to develop an active research program at the organismal or cellular level and be able to teach both physiology and zoology. Submit curriculum vitae, names, addresses and telephone numbers of three professional references and reprints of representative publications to: Dr. Carleton Phillips, Biology Department, Hofstra University, Hempstead, NY 11550, by 25 April 1992. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR. The College of Forest Resources, University of Washington, invites applicants for a full-time, 12-month, tenure-track position in forest soils. Applicants must have a Ph.D. by the time of appointment, a background in soil science, and a strong interest in soil/plant relationships and/or soil development in forest ecosystems. Responsibilities include teaching an undergraduate course in basic soils, graduate courses, and development of a research program. The College of Forest Resources has a strong forest soils program with a long history of teaching and research. The position is available 1 July 1992 or at a mutually acceptable date thereafter. Closing date for applications is 15 May 1992. Applications (including résumé, transcripts, and three letters of reference) to: Dr. Robert L. Edmonds, Chairperson, Forest Soils Search Committee, College of Forest Resources, University of Washington, Seattle, WA 98195. Telephone: 206-685-0953; FAX: 206-685-3091. The University of Washington is an Equal Opportunity/Affirmative Action Employer. Qualified women and minorities are urged to apply.

Department of Medicine, Georgetown University, seeks board-certified allergist and immunologist for an immunology and molecular biology of neurologic inflammation in respiratory disease. Experience with molecular biology techniques, human and animal models, and laboratory techniques required. This entry-level ASSISTANT PROFESSOR position carries expectations of academic scholarship, skill in teaching and patient care, and commitment to investigation. Transferable research support is an asset. Send curriculum vitae and names of three references to: Dr. John M. Eisenberg, M.D., Chairman, Department of Medicine, Georgetown University, School of Medicine, 3800 Reservoir Road N.W., Washington, DC 20007. Georgetown University is an Equal Opportunity/Affirmative Action Employer.

SENIOR STAFF (ASSISTANT PROFESSOR EQUIVALENT) OR POSTDOCTORAL FELLOWSHIP (depending on qualifications) available immediately to study ion channels and G-protein regulation and intracellular signaling in molecular or cellular neuroscience. Experience with molecular or cellular neuroscience required. Send curriculum vitae and names of three references to: Dr. R. L. Polan, Laboratory of Biological Chemistry, Building 37, Room SD-02, NIH, 9000 Rockville Pike, Bethesda, MD 20892. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—RESEARCH TRACK. The Department of Animal Biology, University of Pennsylvania, seeks a neuroscientist to study the neuroendocrine mechanisms of body fluid homeostasis. The candidate must have a Ph.D. in neuroscience or related area, 3 years of postdoctoral training, and extensive experience with brain membrane analysis, including ultrastructural morphology, study of molecular or cellular neuroscience, study of receptor biochemistry, and statement of research interests, and three letters of recommendation to: Dr. Steven J. Fluharty, Animal Biology—B254 B.V.E. 6046, University of Pennsylvania, Philadelphia, PA 19104-6046. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR—RESEARCH TRACK. The Department of Molecular and Cell Biology, University of California—Berkeley. The Department of Molecular and Cell Biology invites applications for the following tenure-track position, with appointment beginning approximately 1 July 1993. Candidates should have demonstrated excellence, originality, and productivity in research and should have a strong interest in undergraduate and graduate teaching.

ASSISTANT PROFESSOR: research emphasizing the development of vertebrates, especially higher vertebrates, as approached through molecular, genetic, or embryological methods. Applications should include a cover letter, curriculum vitae, a list of publications and University of California—Berkeley.
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/FGEMS 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
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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

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IDEXX Laboratories has harnessed the power of biotechnology — molecular and cellular biology, non-isotopic DNA probe testing and small molecule biodetection, novel assay devices — to the needs of immunodetection for veterinary and food quality testing in markets worldwide. We currently seek scientists with these qualifications:

DNA PROBE DIAGNOSTICS SCIENTIST Develop DNA probe diagnostics to supplement PCR-based non-isotopic detection product line. Requires Ph.D. in biochemistry or molecular biology, working knowledge of infectious disease biology and nucleic acid chemistry. Other desirable experience includes PCR, infectious agent isolation from clinical samples, bacterial culture, molecular cloning, DNA sequencing, automated DNA synthesis, enzymatic conjugation and non-isotopic detection systems, and HPLC.

RESEARCH SCIENTIST—BIO/ORGANIC CHEMISTRY Requires Ph.D. in biochemistry or organic chemistry, and 1 to 5 years of industrial or academic postdoctoral experience. Will be involved with immunoassay development with emphasis on innovative assay design/development of small molecule assays, Hapten design/synthesis/conjugation to macromolecules, macromolecule/protein purification/characterization techniques. Animal health industry, food quality/purity, environmental monitoring, drug residue monitoring experience preferred.

RESEARCH SCIENTIST—AUTOMATED ASSAY SYSTEMS Develop assays using automated fluorescent immunooassay methods to detect infectious diseases and other analytes. Develop computerized data tracking and analysis systems and work closely with engineering on the development of analytical instrumentation. Requires Ph.D., 2+ years of postdoctoral training in biochemistry, immunology, cell biology, or related discipline. Industrial experience and familiarity with instrumentation and computers desirable.

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UNIVERSITY OF FLORIDA
COLLEGE OF MEDICINE
DEPARTMENT OF PHARMACOLOGY

POSITIONS OPEN

A tenure-track ASSISTANT PROFESSOR position is open for applicants having a Ph.D. and/or M.D. degree with at least 2 years of postgraduate experience. The successful candidate will be expected to develop an independent research program, teach professional and graduate students, and contribute to other academic activities. Position offers a competitive salary and laboratory start-up package. The department is interested in strengthening research in neuropsychopharmacology with molecular and/or structural biology approaches. Applications including names of three references should be sent to: Dr. Duke T. Crews, Chairman, Search Committee, University of Florida, Department of Pharmacology, P.O. Box 100267, Gainesville, FL 32610. The University of Florida is an Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.

BAYLOR COLLEGE OF MEDICINE,
HOUSTON, TEXAS

Department of Anesthesiology is inviting applications and nominations for a position as ASSOCIATE PROFESSOR and ASSOCIATE PROFESSOR levels. These positions offer excellent opportunities to develop an academic career in a department with excellent clinical, basic science, and research programs. Applicants are encouraged to apply. Interested applicants should send curriculum vitae to: Dr. Robert Crews, Chairman, Department of Anesthesiology, Baylor College of Medicine, 655 Fannin, Suite 1003, Houston, TX 77030. Baylor College of Medicine is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY

Mercer University School of Medicine wishes to fill a tenure-track position in pharmacology immediately. Applicants must possess a Ph.D. and/or M.D. with postdoctoral training. Preference will be given to candidates with experience in cardiovascular and/or autonomic pharmacology. In basic science research in molecular pharmacology of ion channels or cardiovascular physiology. Qualified candidates should send curriculum vitae to: William F. Childress, M.D., Chairman, Department of Anesthesiology, Mercer University School of Medicine, Macon, GA 31207. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSISTANT/ASSOCIATE PROFESSOR IN ENDOCRINOLOGY

Ph.D. with several years of postdoctoral experience in molecular biology to coordinate and supervise a new interdepartmental research program in diabetes and obesity. The candidate must have outstanding leadership capabilities, become involved in the training of fellows and technicians, and conduct collaborative research and initiate higher independent research. We offer a competitive salary and benefits package.

Please send curriculum vitae, summary of present research interest and two letters of reference to: Dr. Jose F. Caro, Chairman, Department of Medicine, Jefferson Medical College, 1025 Walnut Street, Philadelphia, PA 19107.

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ASSOCIATE/FULL PROFESSOR OF PHARMACOLOGY

Ph.D. scientist to focus on molecular biology of CNS drug actions is sought for a tenure-track position. Send nominations/applications including curriculum vitae, statement of research interest, and financial support to: Dr. Harbans Lal, Chairman, Department of Pharmacology, Texas College of Osteopathic Medicine, 8500 Camp Bowie Boulevard, Fort Worth, TX 76177. An Equal Opportunity/Equal Opportunity Employer and Educator.

UNIVERSITY OF MINNESOTA
MEDICAL SCHOOL

APPLICATIONS ARE INVITED FOR TENURE-TRACK POSITIONS (ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, FULL PROFESSOR) IN THE DEPARTMENT OF PHARMACOLOGY. Interested individuals are invited to submit applications and nominations/applications of colleagues who have demonstrated interest in research areas of the department. Applications including names of three references should be sent to: Dr. Robert C. Lemasters, Chairman, Department of Pharmacology, University of Minnesota, 424 Delaware Street, S.E., Minneapolis, MN 55455. Deadline for receipt of applications is 15 May 1992.

The University of Minnesota is an Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR PHARMACOLOGY

Applications are invited for a tenure-track position in the Department of Pharmacology at the State University of New York Health Science Center at Syracuse available in the fall of 1992. Candidates must have an M.D. or Ph.D. and a minimum of two years of postdoctoral research experience. Applicants should send curriculum vitae, summary of research accomplishment, and three letters of reference to: Dr. Frank L. Connors, Chairman, Department of Pharmacology, SUNY Health Science Center at Syracuse, One Medical Plaza, Syracuse, NY 13210. An Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITIONS

(RESEARCH ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, FULL PROFESSOR)

Tenure-track faculty positions in the Department of Pharmacology are available immediately at the assistant, associate, and full professor levels. Applicants must show outstanding promise of original research contributions in one of the areas of basic or clinical pharmacology or related fields. Applications are invited from individuals who are interested in developing a new program in their own research area or who wish to join an established program. Applicants should send curriculum vitae, description of research experience, and three letters of reference to: Dr. Karen H. Kopecky, Chairman, Department of Pharmacology, University of Pennsylvania, Philadelphia, PA 19104. An Equal Opportunity/Affirmative Action Employer.

ENDOCRINOLOGY, ASSISTANT/ASSOCIATE CLINICAL PROFESSOR

Applications are invited for an Assistant/Associate Clinical Professor position available at the University of California, San Diego (UCSD). Candidates with an interest in research and experience in endocrinology/metabolism; significant experience in clinical endocrinology and diabetes; experience in clinical investigation preferred. Candidate will be expected to develop a new program in endocrine research. Nominations/applications should be sent to: Dr. J. Michael Conlon, Chairman, Department of Medicine, University of California, San Diego, 9500 Gilmore Drive, La Jolla, CA 92037-8860. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF CALIFORNIA,
DAVIS
DEPARTMENT OF MEDICINE

POSITIONS AVAILABLE

Tenure-track faculty positions in endocrinology are available immediately at the assistant, associate, or full professor levels. Applicants must have an M.D. and/or Ph.D. and must demonstrate exceptional promise of original research. Applications including three letters of reference should be sent to: Dr. Robert J. Flier, Chairman, Search Committee, Department of Medicine, University of California, Davis Medical Center, 2315 Stockton Boulevard, Sacramento, CA 95817.

SUPervisor of the Cell Culture Laboratory

The Coriell Institute for Medical Research seeks a qualified person as supervisor of the cell culture laboratory to serve as an important part of the laboratory. The supervisor will be responsible for planning and implementing procedures for cell culture and associated research. The successful candidate will possess a Ph.D. in molecular biology or related field. Experience in the design and implementation of procedures for cell culture and associated research is essential. The position requires excellent analytical and problem-solving skills and the ability to work independently. The Coriell Institute offers a competitive salary and benefits package. Applications should be submitted to: The Assistant Director, Cell Culture Laboratory, The Coriell Institute for Medical Research, P.O. Box 8888, Camden, NJ 08103-8888. An Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK POSITION

Work Environment Department is seeking to fill a tenured-track position in environmental science. Preference will be given to candidates with a Ph.D. and/or M.A. in environmental science and a strong background in environmental science. Candidates should send curriculum vitae, statement of research interests, and three letters of reference to: Dr. John R. Peterson, Chair, Search Committee, Department of Environmental Science, University of California, Davis, One Shields Avenue, Davis, CA 95616. An Equal Opportunity/Affirmative Action Employer.

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**POSTDOCTORAL SCIENTIST**

**Anti-Infectives**

SmithKline Beecham, a worldwide leader in pharmaceuticals research, has a postdoctoral position immediately available in their Anti-Infectives HIV research group. The research program involves the study of HIV Pathogenesis and specifically deals with molecular approaches (i.e. site-directed mutagenesis) to identify and characterize novel targets in HIV.

Qualified candidates will have a Ph.D. in Virology, Biochemistry. Immunology or Pathology. Preference will be given to individuals with demonstrated expertise in virology, molecular biology, and/or biochemistry.

Our state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. SmithKline Beecham Pharmaceuticals provides a stimulating and challenging work environment, based on creativity, commitment and teamwork. We offer an attractive compensation/benefits/location package.

For confidential consideration, please submit your CV and the names of three references to: Marilyn Leggieri, #L0113, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

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**Director of Organic Chemistry**

Emisphere Technologies, Inc., a publicly held company, is developing its breakthrough, patented oral drug delivery technology and is currently conducting a search for a director of organic chemistry. Candidates must have a minimum of eight years industrial experience with a Ph.D. or M.S. degree. Experience should include production scale up (from bench to final product) of a pharmaceutical product and all facets of the FDA approval process.

Emisphere is looking for candidates who possess extensive experience in synthetic organic chemistry, excellent leadership qualities and proven abilities to achieve results. Knowledge of thermal condensation reactions, peptide synthesis, and/or polymer chemistry is desirable. A competitive compensation package is being offered, including an excellent opportunity to participate in the success of the Company through an employee stock option plan.

Please send your resume with salary history and requirements to:

Ms. Sally Love
Emisphere Technologies, Inc.
15 Skyline Drive
Hawthorne, New York 10532
Fax (914) 347-2498

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**RESEARCH SCIENTIST/POSTDOCTORAL FELLOW**

**CELL AND MOLECULAR BIOLOGIST**

The Bone Research Branch, National Institute of Dental Research seeks an outstanding candidate with graduate education and/or clinical experience in Cell Biology, Biochemistry or Molecular Biology for a senior postdoctoral fellowship position. Applicants should have at least 4 years postdoctoral training and research experience in connective tissue research, primarily in chondrogenesis and osteogenesis. Additionally, the applicant should be familiar with: tissue culture techniques including biological assays for metabolism and structure of matrix macromolecules such as proteoglycans and collagen; DNA recombination techniques including construction of cDNA libraries and cDNA probes for matrix macromolecules and osteogenic/chondrogenic growth factors; protein chemistry techniques including peptide mapping and sequencing. A substantial record of publications of original work in these areas is required. Starting salary will be commensurate with qualifications and experience. Interested candidates should submit a curriculum vitae, several reprints, summary of research interests and names of three references no later than May 15, 1992. Material should be sent to:

Faye M. Harbrant, Personnel Management Specialist, National Institute of Dental Research, Building 31, Room 2C23, 9000 Rockville Pike, Bethesda, Maryland 20892.

NIH is an Equal Opportunity Employer
EARTH OBSERVING SYSTEM (EOS) SENIOR PROJECT SCIENTIST

The NASA/Goddard Space Flight Center, located in Greenbelt, MD is seeking candidates for the position of EOS Senior Project Scientist. The incumbent will provide the primary and day-to-day interface between the Earth Science community and the EOS Project in defining and representing scientific requirements and providing related scientific insight and guidance to the EOS Project. The incumbent will work with the EOS Program Scientist and other Earth Science Program personnel at NASA Headquarters to ensure that scientific and related programmatic requirements are appropriately implemented by the EOS project. Along with the Program Scientist, the incumbent will co-chair the EOS Investigators Working Group (IWG) and related panels and subpanels. The incumbent will guide and lead the efforts of EOS Project Scientists associated with the various EOS payloads and the EOS Data and Information Systems (EOSDIS).

An applicant should be an internationally recognized research scientist in an Earth science discipline or interdisciplinary Earth science, with substantial experience in developing and implementing research programs. There should be documented skill or knowledge in numerical modeling and data analysis using remotely sensed data from spaceborne, earth oriented observing systems and related data processing, archiving, and distribution systems. The salary associated with the position ($64,239–$104,000) will depend upon the selected applicant’s background, qualifications, and experience.

In applying, the following is required: a resume including a list of scientific and technical publications and an Application for Federal Employment (SF-171). This material should be sent by May 8, 1992, to: NASA/Goddard Space Flight Center, Code 115G, Greenbelt, MD 20771. Inquiries should be directed to Ms. Dianne Hagerty at (301) 286-8319. Equal Opportunity Employer. U.S. Citizenship is required.

University & Community College System of Nevada
Director of Experimental Program for the
Stimulation of Competitive Research, (EPSCoR)

POSITION: Director of EPSCoR,
Primarily Administrative Contract;
Opportunity for Some Teaching/Research

SALARY RANGE: Competitive

JOB DESCRIPTION: A National search is being conducted for an active Senior Researcher with interest in both the administration and stimulation of competitive research for the University and Community College System of Nevada (UCCSN). The Director of EPSCoR reports directly to the Chancellor of UCSSN and serves as Executive Director for the EPSCoR statewide Committee and the Executive Committee (a subcommittee of the statewide committee). The Director chairs the EPSCoR Planning and Coordinating Committee; serves as an ex officio member of UCSSN Research Affairs Council and works closely with the EPSCoR Committee Chair on a daily basis. The Director deals with state government officials and legislators; coordinates all proposals for EPSCoR projects to all federal agencies which are submitted to the Chancellor and advises the Chancellor on the proper priority of EPSCoR projects.

QUALIFICATIONS: Ph.D. in a Scientific or Engineering Field; significant record of accomplishment in research, research stimulation, research administration; competitive funding support awarded in an appropriate department, in a major academic institution; experience and desire to act as a mentor; extensive experience and success in writing federal grants and proposals in science, math or engineering; proven excellence in interpersonal skills and communicating, both written and orally, with senior level officials in a variety of governmental and private industry settings. Qualifications are such that the successful candidate would ordinarily be eligible for appointment as a full professor in an academic department. Experience in working in a multidisciplinary, multi-institutional environment in any interinstitutional setting is desirable.

ORGANIZATION: The University and Community College System of Nevada is composed of two universities, four community colleges, the Desert Research Institute and the System Administration Office. This position will consult with all contacts from all entities regarding any EPSCoR matter.

APPLICATIONS: Applicants are to submit a letter of interest, with emphasis on the above qualifications, a resume, and the name, address and telephone number of at least three professional references to:

The EPSCoR Search Committee
UCSSN, Chancellor's Office
2681 Enterprise Road
Reno, Nevada 89512

For additional information, or a copy of a more detailed job description, call Judy Sambrano at 702-784-4905. Review of applications will begin April 30, 1992 and continue until the position is filled.

UCSSN is an Equal Opportunity, Affirmative Action, employer and employs only U.S. citizens and aliens lawfully authorized to work in the U.S.

POSITIONS OPEN

UNIVERSITY OF WURZBURG
THE BAVARIAN JUILLUS-MAXIMILAN UNIVERSITY INVITES APPLICATIONS FOR A PROFESSORSHIP (C4) IN BOTANY

(Chair botany II: ecophysiology and geobotany, succeeding O. L. Lange). This post will be available from 1 October 1992. Applicants should be experienced in research and teaching within the fields of ecophysiology and/or geobotany. They should be able and willing to cooperate with research groups within the Sonderforschungsbereich 251 "Ecology, physiology and biochemistry of plant and animal performance under stress" and with the two other chairs (botany I and pharmacognosy) of the Julius-von-Sachs-Institute. The successful applicant will also be appointed head of the botanical garden. Applications including curriculum vitae, publication list, records of teaching activity and an outline of the envisaged research program should be sent no later than 31 May 1992 to the Dean of the Faculty of Biology, Professor U. Scheer, Bizenstrum, Am Ha- bland, D-8700 Wurzburg, Germany.

CHAIRPERSON
DEPARTMENT OF CHEMISTRY
DUQUESNE UNIVERSITY

The Department of Chemistry at Duquesne University invites applications and nominations for the position of chairperson. Duquesne University is a private Catholic institution located in Pittsburgh, Pennsylvania, with a total enrollment of 8000 students. The department, which consists of 13 full-time faculty and approximately 30 graduate students, offers the B.S., M.S., and Ph.D. degree in chemistry and biochemistry. We are seeking an individual with nationally recognized research accomplishments and a commitment to undergraduate and graduate education. The successful candidate will demonstrate the ability to provide leadership and vision in a growing department's research and educational programs. The area of expertise, rank, and salary are open.

Applications should consist of a cover letter, curriculum vitae, and names and addresses of four references. Review of applications will begin 1 May 1992. Direct inquiries and applications to: Search Committee, c/o Dr. J. W. Hauser, Interim Chair, Department of Chemistry, Duquesne University, Pittsburgh, PA 15282.

Equal Opportunity/Affirmative Action Employer.

CHIEF ENDBERGEE RESOURCES BRANCH

Administers branch and directs technical studies to assess status and needs of rare, threatened and endangered resources including plants and commumities. Coordinates department actions to address endangered resource issues on statewide basis. Develops policy and regulations and participates in educational efforts. Vacancy announcement #21, item 1. Salary not to exceed $51,408.

CHIEF AQUATIC STUDIES BRANCH

Administers branch and directs technical studies assessing instream flows for rivers, freshwater inflows to estuaries, evaluates water rights permits and actions to avoid or mitigate adverse impacts. Coordinates with other branches, divisions, and other state and federal agencies. Develops policies and participates in educational efforts. Vacancy announcement #21, item 2. Salary not to exceed $51,408.

Contact by 15 May 1992; Larry D. McKinney, Ph.D., Director, Resource Protection Division, Texas Parks and Wildlife Department, 4200 Smith School Road, Austin, TX 78744; telephone: 512-389-4656.

MICROBIOLOGY/DEVELOPMENTAL BIOLOGY

One-year replacement position for 1992-93 at two-thirds time. Teaching responsibilities include two courses with accompanying laboratories each semester: microbiology and general biology, fall semester, and developmental biology and general biology, spring semester. Ph.D. or A.B.D. Send letter, curriculum vitae, and names of three references to Dr. Richard Pfan, Dean, Emory & Henry College, Emory, VA 24327. Inquiries to: Dr. Richard Sherwin, Chair, Biology; telephone: 703-944-4121.
The Wellcome Trust

Eighth Wellcome Summer School
Gene Targeting and Homologous Recombination
July 9th - 18th 1992

Division of Biochemistry, United Medical and Dental Schools of Guy’s and St Thomas’s Hospitals, Guy’s Campus, London.

An intensive laboratory based course to introduce participants to some of the procedures underpinning gene targeting and homologous recombination.

Programme
1. Design of targeting constructs.
2. Transfection of human somatic cells and mouse embryo stem cells.
3. Screening and selection procedures for isolation of homologous recombinants.
4. Growth and analysis of candidate homologous recombinants.
5. Techniques for transgenic reconstitution.

Informal tutorials and evening lectures (by invited speakers) will supplement the laboratory sessions.

Course Directors: MARTIN EVANS, JOHN HEATH and ANDREW PORTER.

Confirmed speakers include: ANTON BURNS, ROLF KEMLER, GAIL MARTIN, MIROSLAV RADMAN, SHUNICHI TAKEDA and STEPHEN WEST.

Participants: Applicants should be postdoctoral (or close to) scientists engaged in relevant research. Applicants with cell culture and or molecular biology experience will be particularly welcome. The course is subsidised by the Wellcome Trust for scientists based in academic institutions anywhere in the world, but there is a charge of £350 towards board and lodging.

Applications: There are no formal application forms, but applicants should send a copy of their full cv together with a 300 word outline of their research plans to Dr Pelin Falk, Course Co-ordinator, Division of Biochemistry, UMDS, Guy’s Campus, London Bridge, London SE1 9RT, England. Telephone: 071-403 6998. Fax: 071-407 5281.

Closing date for applications is April 30th.
Postdoctoral Fellowship in Immunology

Position available immediately. Immunologist to work on structure and properties of polyreactive antibodies. Experience desirable in protein chemistry, synthetic peptides, processing and presentation of antigens and production of monoclonal antibodies. Opportunity for postdoctoral fellow to have technical and/or postdoctoral support. Salary commensurate with experience (range $33,504 to $60,070 per year).

Send Curriculum Vitae and names of references to Dr. Lois Salzman, Deputy Director, Intramural Research Program.

National Institute Of Dental Research
National Institutes of Health, 9000 Rockville Pike, Building 30, Room 131, Bethesda, MD 20892
Equal Opportunity Employer

RESEARCH OPPORTUNITIES IN BIOTECHNOLOGY

The Department of Biotechnology Research is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. Successful candidates will be expected to interact extensively with ongoing programs in transformation, gene expression, gene isolation or RFLP programs.

PROJECT LEADER, DISEASE RESISTANCE/PATHOLOGY (JOB #1355) - There is an immediate opening for a plant pathologist to develop whole plant bioassays for determining efficacy of disease resistance genes in transgenic crop plants. The person filling this position will be expected to interact extensively with a multidisciplinary disease resistance group as well as other research departments in the Plant Breeding Division.

EDUCATION/EXPERIENCE: PhD or equivalent experience in plant pathology, cell biology or related field plus 1-2 years relevant post-doctoral or laboratory experience. Experience in fungal disease screening, host-plant pathogen interactions, experimental design and analysis, knowledge of cell and molecular biology is required.

Applications received by APRIL 24, 1992 will be assured of consideration. However, applications will be considered until the position is filled.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity/Affirmative Action employer. Please send resume and indicate in your correspondence the JOB #, the names, addresses and telephone numbers of three references to:

PIONEER HI-BRED INTERNATIONAL, INC.
Plant Breeding Division
Department of Biotechnology Research
Attn: Amy LaMotte JOB #1355
P.O. Box 1004
Johnston, IA 50131-1004

University of Zürich, Physics Department
Professor in Condensed Matter Physics

The Physics Department is seeking a candidate for a faculty position as full professor in experimental condensed matter physics. The position will be available in fall 1993.

Applications are invited from physicists with an outstanding international research reputation. The successful candidate is expected to start a new research program in an active and innovative field in condensed matter physics. Topics like "laser physics", "surface physics" or "complex systems" are particularly welcome. Interactions with the existing activities of the NMR, ESR and μSR groups are possible.

The candidate is encouraged to continue the collaboration of the Physics Department with the IBM Research Center in Rüschlikon, the Paul-Scherrer-Institute (PSI) and various institutes of the University of Zürich and the Institute of Technology (ETH) in Zürich.

Beside research, the applicant is expected to share with his colleagues the duties of teaching and guiding courses in experimental physics at all levels.

Please send your application including curriculum vitae, list of publications, proposed research activities and three references to the following address to arrive before 15 June 1992: Dekan der Philosophischen Fakultät II, Universität Zürich, Winterthurerstr. 190, CH-8057 Zürich, Switzerland.

Senior Virologist

The Infectious Diseases Section of the PARKE-DAVIS Pharmaceutical Research Division seeks an experienced Ph.D. Virologist to lead an expanding virology program.

The successful candidate will have at least five years of post-doctoral experience and direct familiarity with two or more virus systems. A demonstrated ability for in vivo and in vitro evaluation of investigational antiviral agent efficacy is required, as is the ability to lead a research group and to interact with the substantial molecular and biochemical antiviral research underway at PARKE-DAVIS. Additional competence in molecular biology and/or biochemistry of virus is highly desirable.

The successful candidate will develop antiviral testing strategies which complement existing discovery efforts and will have an exceptional opportunity to influence future virology research direction at PARKE-DAVIS.

Interested persons should forward their resume in confidence to Box JDM-92109, PARKE-DAVIS, Human Resources, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

"Equal Opportunity in Action"

Pioneer Hi-Bred International, Inc.
Plant Breeding Division
Department of Biotechnology Research
Attn: Amy LaMotte JOB #1355
P.O. Box 1004
Johnston, IA 50131-1004
SOCIETY OF CHINESE BIOscientISTS IN AMERICA
FOURTH INTERNATIONAL SYMPOSIUM & WORKSHOP ON BIOSCIENCES

June 14 - 19, 1992, (SINGAPORE)
at
INSTITUTE OF MOLECULAR AND CELL BIOLOGY
NATIONAL UNIVERSITY OF SINGAPORE

Symposia and Workshops include:  Gene Structure, Expression & Regulation; Cell Structure Functions & Interactions; Genome & Molecular Genetics; Pharmacology & Drug Design; Tumor Progression & Suppression; Human Virology & AIDS; Recent Advances in Gene Transfer & Biotechnology; Cardiovascular & Clinical Research & Artifical Cells; Hepatitis, Hepatitis Viruses & Hepatoma; Structural Biology; Molecular Enzymology & Metabolic Diseases; Immunology; Plant Molecular & Cellular Biology; Approaches to Vaccines; DNA Viruses & Cancer; Kinases, Phosphatases & Signal Transduction; Toxicology: Mechanism; Detoxification & Risk; New Drug Discovery & Chinese Herbal Medicine; RNA Viruses & Retrovirology; Environmental & Resource Biotechnology; Oncogenesis & Growth Signals; Transcription & RNA Splicing; Neuroscience & Developmental Biology; Molecular Parasitology.

Partial List of Invited Speakers: Sydney Brenner (Cambridge/Scripps/IMCB), James C. Wang (Harvard), Y.H. Tan (IMCB), Y.W. Kan (UCSF), Lan Bo Chen (Harvard), Ray Wu (Cornell), Charles Cantor (Berkeley), Yung-Chi Cheng (Yale), Ru-Chih Huang (Johns Hopkins), Nam-Hai Chua (Rockefeller/IMCB), Wen-Hwa Lee (Texas), Flossie Wong-Staal (UCSD), Louis Lim (IMCB), Cheng-Wen Wu (Taipei), Savio L.C. Woo (Baylor), Tsai-Ping Li (Shanghai), Shu Chien (UCSD), W.K. Joklik (Duke), Jeffrey T.F. Wong (Hong Kong), W. Chia (IMCB), Jerry Wang (Calgary), Michael Lai (USC), Hsing-Jien Kung (Cleveland), Wanjing Hong (IMCB), Peter Vogl (USC), C.C. Wang (Taipei), Yunde Hou (Beijing), Chien Ho (Pittsburgh), Chi Huey Wong (Scripps), C.C. Liew (Toronto), C.J. Pallen (IMCB), C. Samuel (UCSB), Michel Klein (Connaught Lab), T.M.S. Chang (McGill), Carl Wu (NIH).

Conference Inquiries: Joseph K.-K. Li, Molecular Biology Program, Department of Biology, UMC-5500, Utah State University, Logan, Utah 84322-5500, USA 801-750-1914 (Off); 801-750-1575 (FAX)

OBJECTIVE: To foster the advancement of research in human immunodeficiency virus (HIV) and associated diseases in China.

DIRECTOR, DIVISION OF HIV/AIDS NATIONAL CENTER FOR INFECTIOUS DISEASES CENTERS FOR DISEASE CONTROL

CDC invites applications for the position of Director, Division of Human Immunodeficiency Virus (HIV/AIDS), National Center for Infectious Diseases, Atlanta, Georgia.

This Senior Executive Service position is in the career civil service with an annual salary range of $90,000–$112,100. Physicians may also be eligible for a comparability allowance of up to $20,000 per year. Exceptional recruiting difficulty may result in payment of a recruitment/relocation bonus or a dual compensation waiver.

The Director, Division of HIV/AIDS has responsibility for planning and coordinating a national program for the prevention and control of HIV/AIDS. He/she serves as a principal resource for the Public Health Service for public health aspects of infections caused by the Human Immunodeficiency Virus.

Qualifications preferred include a doctoral degree (M.D., Ph.D., or equivalent), broad knowledge of public health programs related to the prevention and control of HIV/AIDS, and proven ability to provide administrative and scientific leadership for a research program employing over 250 professional, technical, and administrative personnel.

Further information about the position may be obtained from Mitchell L. Cohen, M.D., Search Committee Chair, Mailstop C09, Centers for Disease Control, 1600 Clifton Road, Atlanta, GA 30333. Interested candidates may send their curriculum vitae and names of three professional references by May 22, 1992 to Nancy Peterson, Personnel Management Office, Centers for Disease Control, 1600 Clifton Road, Atlanta, GA 30333. Tel. (404) 639-1521.

CDC is an Equal Opportunity Employer and provides a smoke-free work environment. This is a drug testing designated position.

Assistant Extension Natural Resources Specialist and Assistant Plant Ecologist

The Department of Botany and Plant Sciences, University of California, Riverside, announces a position available July 1, 1992. The position is an 11-month, academic career-track, Assistant Extension Specialist (70%) and Assistant Plant Ecologist (30%) appointment in the Agricultural Experiment Station. Basic and applied research will emphasize the development of improved management methods for maintaining, augmenting, and restoring biodiversity. The appointee is expected to provide leadership, coordination, and subject matter knowledge through statewide research and education activities for the benefit of interested individuals, groups, and agencies and for the general benefit of California’s environment. A Ph.D. degree is required, with demonstrated expertise in plant biodiversity, preferably with emphasis on urbanization and plant community fragmentation. Knowledge and experience with one or more of the following is desirable: biology of rare, threatened, or endangered plant species; preparation of EIR or similar biological reviews; biodiversity management or mitigation methodology. The position requires strong basic knowledge of plant community ecology and a knowledge of or willingness to learn the California flora. Must have demonstrated successful performance of original research and computer skills necessary for statistical data analysis and database management. Should have well developed organizational skills and knowledge of Cooperative Extension methodologies. Skills in oral, written, and visual communication are essential for working with diverse clientele groups. Send letter of application, curriculum vitae, statement of research interest, transcripts, and arrange to have at least three confidential letters of reference sent to:

Dr. Robert T. Leonard, Chairman, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521-0124

(Telephone 714-744-4413; FAX 714-787-4437.)

The application deadline is May 22, 1992. The University of California is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.
POSTDOCTORAL POSITIONS OPEN: 1 June 1992 to study immunological mechanisms and autoimmune disease. Primary interests are:

(1) Understanding the role of endogenous retroviruses in human immune disease through an in-depth analysis of the roles of these endogenous retroviruses, particularly by determining their in vivo presence and expression.

(2) Understanding associated changes in immunoglobulin gene structure and expression in autoimmune disease by identifying critical DNA and protein characteristics associated with autoantibodies and how these sequences underlie disease processes.

Submit curriculum vitae and three letters of reference to: George N. Abraham, M.D., Box 695, University of Rochester Medical Center, Rochester, NY 14642.

POSTDOCTORAL POSITIONS IN IMMUNOLOGY. Available immediately in the laboratory of Elizabeth Mellins, M.D., or Yvonne Paterson, Ph.D. Research will involve various aspects of antigen processing and presentation to the class I and II restricted pathways in humans and mice. Candidates should possess a Ph.D. in molecular biology, immunology or biochemistry. Send curriculum vitae and names of three references to either Dr. Paterson or Dr. Mellins, 209 Johnson Pavilion, School of Medicine, University of Pennsylvania, Philadelphia, PA 19104-6076. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. Two positions are available immediately in the laboratory of Anaerobic Microbiology, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0305. Telephone: 703-231-7121. Virginia Tech is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS are available immediately in the laboratory of Dr. Robert H. Cox, Bockus Research Institute, The Graduate Hospital, One Graduate Plaza, Philadelphia, PA 19146. The Graduate Hospital is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN SIV TRANSMISSION AND PATHOGENESIS. Available immediately for M.D.'s, Ph.D.'s, and D.V.M.'s with strong background in molecular biology, immunology, virology, genetics or enzymology to study mechanisms of (1) viral determinants of pathogenesis, (2) sexual transmission, (3) fetal and neonatal transmission, and/or (4) Mycobacterium avium intracellulare infection in recombinant DNA technology. Salary: $31,000 per year depending on experience. Send curriculum vitae, summary of past work, and names and addresses of three references to: Dr. Manuel Miller, Outstanding Women in the Neurosciences Regional Prominent Women Research Center, University of California, Davis, CA 95616-8542. Equal Opportunity Employer.

POSTDOCTORAL POSITION. University of Michigan, available immediately to study the activation and development of T lymphocyte subsets in aging. A strong background in molecular immunology is desired. Send curriculum vitae, a brief statement of research interests, and names and telephone numbers of three references by 1 May 1992 to: M.D. Boles, Department of Surgery (Otolaryngology), 1001 S. Medical Center Dr., Ann Arbor, MI 48109-2007. The University of Michigan is a nondiscriminatory/Affirmative Action Employer.

POSTDOCTORAL POSITION IN AUDITORY NEUROBIOLOGY to study aspects of voltage-dependent ionic mechanisms and associated cellular pathways. Experience in molecular biology and/or protein biochemistry required. Please respond with curriculum vitae and three letters of reference to: James P. Ferry, Department of Biochemistry and Molecular Biology, University of Pennsylvania, Philadelphia, PA 19104-6076. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to participate in studies of DNA excision repair mechanisms in specific chromatin domains in human cells. Applicants should possess Ph.D. degrees in molecular biology/molecular genetics/immunology or a related area and be familiar with modern techniques for studying the molecular aspects of DNA repair. Send curriculum vitae and names of three references by 1 May 1992 to: Dr. George J. Cantor, Department of Biophysics and Biomedical Engineering, University of Pennsylvania, Philadelphia, PA 19104. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS AVAILABLE. Applicants should possess Ph.D. degrees in molecular biology, immunology or biochemistry. Send curriculum vitae and names of three references to Dr. J. David Green, Department of Neurobiology, Duke University Medical Center, Box 1300, Durham, NC 27710. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in functional organization of vertebrate retina at the cellular and molecular levels. Research areas include (1) electrophysiological properties of neurons, (2) interneuronal interactions and/or interactions between neuronal and glial cells, (3) ontogeny of retinal organization, and (4) the molecular basis of retinal degeneration. Send curriculum vitae, a brief statement of research interests, and names of three references by 1 May 1992 to: Dr. Ralph V. Danoff, Vision Development Laboratory, Massachusetts Institute of Technology, Cambridge, MA 02139-4307. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION University of California San Francisco SAN FRANCISCO

Positions are available immediately for biochemists or cell biologists with molecular biology experience. Projects involve (1) cloning of the mammalian nucleoside transporter and studying the regulation of nucleoside transport by phosphorylation and (2) regulation of AMPF signal transduction by "cross-talk." Salary is $27,000 to $30,000. Send curriculum vitae, summary of research experience, and names of three references to: Dr. Adrienne Gordon or Ivan Diamond Department of Neurology University of California San Francisco Building 1, Room 101 1001 Potrero Avenue San Francisco, CA 94143 The University of California is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS OPEN. Available immediately to work on problems in T cell activation and differentiation. Send curriculum vitae, a brief statement of research interests, and names and telephone numbers of three references to: Dr. David W. Wilson, Department of Biochemistry, University of California Berkeley, Berkeley, CA 94720 by 5 June 1992. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available immediately to study muscular dystrophy in mice. Send curriculum vitae, a brief statement of research interests, and names of three references to: Dr. R. Breech, Department of Genetics, University of California Berkeley, Berkeley, CA 94720. Equal Opportunity Employer.

POSTDOCTORAL POSITION in signal transduction. Send curriculum vitae, a brief statement of research interests, and names of three references to: Dr. Charles Gallo, Department of Pediatrics, University of California San Francisco, San Francisco General Hospital, Building 1, Room 1011, San Francisco, CA 94110. Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION at Savannah River Laboratory, Aiken, South Carolina, to work on analytical x-ray diffraction and x-ray crystallography of enzyme crystal structures. The position requires experience in techniques related to x-ray diffraction and x-ray crystallography and knowledge of a computer language. Deadline is June 1992. Send curriculum vitae and three letters of reference to: Mr. John R. Sullivan, Department of Energy, Savannah River Laboratory, Aiken, South Carolina 29808-0393. Equal Opportunity Employer.
AFRC POSTDOCTORAL FELLOWSHIPS

The Agricultural and Food Research Council will be appointing up to six postdoctoral fellows in 1992.

The fellowships are to enable a small number of outstanding research workers to devote a significant period to full time research. They are tenable in any of the areas of research funded by AFRC—agriculture, food, biological sciences and related areas in the physical sciences and engineering—and at any appropriate UK higher education institution or research institute prepared to receive the fellow. Applicants are responsible for making their own arrangements with the intended host institution. The fellowships will normally be for 5 years, with the possibility of renewal.

Applicants should be postdoctoral scientists. There are no age limits, but the Council wishes a proportion of the fellows to be research workers already having significant postdoctoral experience. Applications will be considered from UK nationals including those returning from a temporary absence abroad and scientists ordinarily resident in the UK. The value of the fellowships is based on the UFC scales for non-clinical academic staff. In addition, the fellow will receive a support grant of up to £100k over the five year period to help provide technical support, equipment and consumable costs etc. Fellows are eligible to apply for AFRC research grants.

Application forms and further details of the fellowships can be obtained from the AFRC Higher Education Branch, Polaris House, North Star Avenue, Swindon, SN2 1UH (Tel 0793 413218).

Applications must be submitted by 31 May 1992.

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Research Associate
Inflammation

The Immunopathology Department of PARKE-DAVIS Pharmaceutical Research Division, Warner-Lambert Company, seeks a senior-level scientist to establish and integrate development of molecular biology techniques into ongoing inflammation programs directed at modulation of adhesions.

Candidates should have an M.D. or Ph.D. degree with at least five years of independent research, including a strong background in the molecular biology of endothelial cells, neutrophils or extracellular matrix.

Special interests include signal transduction, oxygen radicals, receptor modulation and gene expression, peptide and inflammatory mediators, and growth factors relating to arthritic, gastrointestinal and inflammatory disorders. The ability to initiate collaborations as well as establish independent research is essential.

Interested persons should submit their resume in confidence to Box JDM-908, PARKE-DAVIS, Human Resources, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

"Equal Opportunity in Action"

PARKE-DAVIS
A DIVISION OF WARNER LAMBERT

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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 in 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.
The Wellcome Trust

Ninth Wellcome Summer School

DNA Related Methods in Human Genetics
YAC Cloning in Genome Analysis

July 31st - August 8th 1992

Division of Biochemistry, United Medical and Dental Schools of Guy's and St Thomas's Hospitals, Guy's Campus, London.

An intensive laboratory based course to introduce participants to modern methods of DNA analysis using yeast artificial chromosomes.

Programme
1. Methods for YAC library screening.
2. The analysis of individual clones by hybridisation and polymerase chain reaction.
4. Subcloning of YACs and integration with prokaryotic cloning systems.
5. Retrofiling and fragmentation of YACs.
6. Application of YACs to specific problems in human genomics.

Informal tutorials and evening lectures (by invited speakers) will supplement the laboratory sessions.

Course Directors: DAVID BENTLEY, ANTONY MONACO and IOANNIS RAGOUSSIS.

Confirmed speakers include: WILLIAM BROWN, TOM CASKEY, ERIC GREEN, NICK HASTIE, DAVID HOUSMAN and RODNEY ROTHSTEIN.

Participants: Applicants should be postdoctoral (or close to) scientists engaged in relevant research and all applicants will be expected to have a basic competence in recombinant DNA techniques. The course is subsidised by the Wellcome Trust for scientists based in academic institutions anywhere in the world, but there is a charge of £350 towards board and lodging.

Applications: There are no formal application forms, but applicants should send a copy of their curriculum vitae, a recommendation from a supervisor and up to 300 words on research plans by 30th April 1992.

Closing date for applications is April 30th.

Research Microbiologist, Bioremediation

The Agouron Institute has an opening in its Microbiology Group for an established investigator who intends to maintain an independent research program in the area of bioremediation. The Microbiology Group at Agouron emphasizes environmental microbiology, particularly work with anaerobic halophiles and thermophiles from marine and subsurface environments. The basic mechanisms involved in maintenance, distribution and function of these organisms are being studied using a broad range of approaches including molecular biology, genetics, physiology, biochemistry and ecology. An investigator with interest in more applied aspects, i.e. bioremediation, is sought to broaden the spectrum of activities of the Group.

The Agouron Institute is a non-profit, research organization with several autonomous research groups in eukaryotic and prokaryotic biology.

Please send a Curriculum Vitae and a letter describing research interests to: Mike Silverman, Melvin Simon, or Willis A. Wood, The Agouron Institute, 505 Coast Blvd. South, La Jolla, CA 92037. An equal opportunity employer.

EIGHTH INTERNATIONAL SYMPOSIUM ON CELLULAR ENDOCRINOLOGY

"Growth Factors: Signal Transduction Mechanisms and Role in Development"

Held in honor of DR. STANLEY COHEN, Nobel Laureate and DR. RITA LEVI-MONTALCINI, Nobel Laureate

August 31–September 3, 1992

Signal Transduction


Development


Session topics will focus on the latest development in signal transduction and the role of growth factors in differentiation and development.

CONTACT: Organizing Committee
W. A. Jones
Cell Science Center, Inc.
10 Old Barn Road,
Lake Placid, N.Y. 12946
Tel. (518) 523-1252
FAX (518) 523-1849
Molecular Biologist/Biochemist

The Department of Obstetrics and Gynecology and the Sealy Center for Molecular Science at the University of Texas Medical Branch, Galveston invite applications for a joint appointment to a tenure-track position at the ASSISTANT, ASSOCIATE, OR FULL PROFESSOR level. The appointee will be expected to build a strong research program in the area of molecular studies of gene expression, as related to uterine contraction and/or physiology. Candidates with demonstrated expertise in uterine contractility and/or smooth muscle biochemistry are especially encouraged to apply. Candidates must have the Ph.D. and/or M.D. degree, with appropriate postdoctoral training and publication record. Salary and start-up funds are highly competitive. The Department and the Center offer a stimulating scientific environment and are deeply committed to high-quality research and teaching. Send complete curriculum vitae, including publications list, brief statement of future research plans, and names and addresses of three references, to:

Dr. Robert Garfield, Search Committee Chairperson, Department of Obstetrics and Gynecology, Room 2.143 Medical Research Building, Rt. J-62, University of Texas Medical Branch, Galveston, TX 77555.

EO/AA Employer, M/F/H/V. UTMB hires only individuals authorized to work in U.S.

Make Significant Contributions To A New Generation Of Therapeutics

At the Medical Research Division of American Cyanamid Company, we're making important strides in developing a new generation of therapeutics based on molecular biology and cell-specific mechanisms. From the creation of materials that allow for longer periods of chemotherapy at lower doses to the discovery of new anti-viral agents, our scientists are making significant contributions in drug discovery and development. We invite you to consider these opportunities:

Senior Development Analytical Chemist

Working within the Biotechnology Development Department, you will primarily be involved with the analytical support of monoclonal antibody drug conjugate development. This includes the development and operation of various methods of analysis related to drugs, antibodies and their conjugates, including immunological, chromatographic, electrophoretic and chemical methods of analysis; radiolabeling and radiochemical analysis as well as laboratory culture and isolation and purification of antibodies, antigens and related proteins. The successful candidate should possess a Ph.D. with 5 years of experience in analytical/bioanalytical chemistry and immunology. (Dept. MK1)

Senior Development Biochemist

This position, also within the Biotechnology Development Department, will be in support of antibody drug conjugate development including process and formulation development, optimization and scale-up for the production of these conjugates for clinical trials and the preparation of the clinical trial supplies. You will also be involved in the development and operation of analytical/bioanalytical methods in support of the conjugate development as well as various aspects of radiolabeling and antibody purification and characterization. The successful candidate should possess a Ph.D. with 2-5 years of experience in biochemistry and immunology. (Dept. MK2)

Postdoctoral Scientist

As part of the Lipid Regulation Group of the Cardiovascular Research Department, you will work on the molecular regulation of metabolism. This will include cloning, expressing and characterizing novel receptors involved in the control of weight and blood glucose. A strong background in the techniques of molecular biology is essential. Knowledge of mammalian cell culture and/or receptor binding desirable. (Dept. JD)

We are located at Lederle Laboratories in Rockland County on a 580-acre campus-like setting only 25 miles north of New York City. Salaries are competitive and include comprehensive benefits. For consideration, send resume/c.v. with the names and telephone numbers of 3 references, indicating the Dept. code for the position of your choice, to: Professional Employment Representative, Medical Research Division, Lederle Laboratories, Pearl River, NY 10965. An Equal Opportunity Employer M/F.

Dedicated People Dedicated To People Since 1906.

POST-DOCTORAL POSITION

TRudeau INSTITUTE, INC.

A Postdoctoral Position in immunology is available to study the immune response to Cryptococcus neoformans. Candidates with a background in cellular or molecular immunology who are interested in using their training to analyze in vivo models of opportunistic infections should apply. A competitive salary and fringe benefits are offered and on-campus housing will be made available. Future staff appointments is possible, depending on performance.

The Trudeau Institute is a not-for-profit pure research institute that specializes in studying the immunology of host defense mechanisms. Current staff interests include cancer and transplantation immunology, immunity against infectious diseases, cytokine function, and immunoregulation. The institute is located on the shore of Saranac Lake, 8 miles from Lake Placid, New York.

Send curriculum vitae and the names of three references to:

Dr. Joseph O. Hill
Trudeau Institute, Inc.
P.O. Box 59
Saranac Lake, NY 12983

Lederle
Dedicated People Dedicated To People Since 1906.
POSTDOCTORAL POSITION

POSTDOCTORAL POSITION

MOLECULAR TOXICOLOGY

HARVARD


Send curriculum vitae and three letters of recommendation to: Dr. Michael Miles, Department of Molecular and Cellular Toxicology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

POSTDOCTORAL TRAINEES IN METABOLIC REGULATION IN EUKARYOTES AT PURDUE UNIVERSITY

Two postdoctoral training fellowships in metabolic regulation in eukaryotes are available at Purdue University. These NIH supported fellowships are for basic scientists and clinicians to conduct research in basic and clinical aspects of metabolic regulation. The trainees will have excellent opportunities to interact with training faculty and other trainees in various areas of their research interests. Current research activities include regulatory factors for the genes in fat and muscle cell development, structure and function of genes for amino transferases and alcohol metabolism, membrane structure and function, mechanism of growth factor action, and signal transduction processes in the action of tumor necrosis.

Candidates must be U.S. citizens or permanent residents of the United States. Interested applicants should submit their curriculum vitae, three letters of recommendation, and a letter stating their research interests to: Ki-Han Kim, Department of Biochemistry, Purdue University, West Lafayette, IN 47907-1153. Telephone: 317-494-1666. Purdue University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to study the toxicity of selected radioprotectors (misoprostol, Ioprose, DMPE, and WR 1538169) in rats, mice, rabbits, freshwater and saltwater fish. Ph.D. in histological techniques desirable. Salary: $22,000.

Send curriculum vitae and three references to: Chair, Department of Basic Pharmaceutical Science, College of Pharmacy, Xavier University of Louisiana, 7235 Palmetto Street, New Orleans, LA 70125.

POSTDOCTORAL POSITION

Available immediately to study the role of phospholipase A2 in arachidonic acid release and prostaglandin synthesis in smooth muscle. Ph.D. in biochemistry and experience in enzyme purification and characterization desirable. Send curriculum vitae and three references to: Dr. Wendell Roelofs, Department of Entomology, Cornell University, New York State Agricultural Experiment Station, Geneva, NY 14454. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

Two or three year positions available to study the role of the signal transduction pathway of mitogen-activated protein kinase (MAPK) in development and proliferation of various cell types. Applicants should have Ph.D. degree and experience in cell biology, biochemistry, and molecular biology. Send curriculum vitae and three references to: Dr. James N. Flanagan, Department of Biology, Brown University, Providence, RI 02912. Brown University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

Applications are invited from holders of M.D./Ph.D. or Ph.D. degrees for a postdoctoral position starting 1 June 1992. The project involves the study of the role of the adenylate cyclase and cyclic nucleotide phosphodiesterase systems in the regulation of adenylate cyclase activity. The candidate will participate in the study of the relationship of cyclic nucleotide regulation of adenylate cyclase activity to the regulation of cyclic nucleotide phosphodiesterase activity. Send curriculum vitae and three references to: Dr. Michael J. Fine, The Rockefeller University, New York, NY 10021. The Rockefeller University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

Applications are invited from holders of M.D./Ph.D. or Ph.D. degrees for a postdoctoral position starting 1 June 1992. The project involves the study of the role of the adenylate cyclase and cyclic nucleotide phosphodiesterase systems in the regulation of adenylate cyclase activity. The candidate will participate in the study of the relationship of cyclic nucleotide regulation of adenylate cyclase activity to the regulation of cyclic nucleotide phosphodiesterase activity. Send curriculum vitae and three references to: Dr. Michael J. Fine, The Rockefeller University, New York, NY 10021. The Rockefeller University is an Equal Opportunity Employer.

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Position Announcement
The W. Alton Jones Foundation

Senior Fellow, Energy Policy

The W. Alton Jones Foundation seeks candidates to fill a position as Senior Fellow at the Foundation working on energy policy, with particular attention to solar hydrogen and especially its role in automotive transport. Working with other organizations, agencies and corporations, the Senior Fellow will carry out policy research and advocacy to promote the development of solar hydrogen based transportation systems. A specific focus will be the feasibility of solar hydrogen demonstration vehicles addressing national clean air legislation requirements and Southern California automotive regulations. The fellow will also advise programmatic staff at the foundation about grant-making opportunities in energy policy, especially those directed toward renewables and energy efficiency.

The W. Alton Jones Foundation, located in Charlottesville, Virginia, about 100 miles southwest of Washington, D.C., makes grants to charitable organizations working in two areas: protecting the global environment and preventing nuclear warfare. The foundation’s grant budget will total $13 million in 1992. A significant fraction of the environmental program focuses on identifying and implementing sustainable sources of energy world-wide.

The successful candidate will have an advanced degree in physics or a related field. A strong professional background in environmental policy, a knowledge of domestic and global environmental issues, and excellent communication and networking skills are important.

Salary will depend upon qualifications and experience and may range up to $60,000 per annum. Generous benefits are included. The foundation is an equal opportunity employer. Letters of inquiry along with a resume should be sent to the Foundation, to the attention of the Director, 232 East High Street, Charlottesville, Virginia 22902.

"Frontiers in Basic Sciences That Relate to Heart, Lung, and Blood Diseases"

MAGNETIC RESONANCE IMAGING AND SPECTROSCOPY
AT HIGH MAGNETIC FIELDS in vivo
June 10-11, 1992

Masur Auditorium
National Institutes of Health
Bethesda, Maryland
Chairied By: Dr. Robert Balaban

This is the eighteenth in a series of symposia that are conducted by NHLBI to capitalize on and transfer the progress achieved in basic science disciplines to clinical research programs. Leading researchers and experts in the field will present their views on the state of the science, the problems facing current understanding, and anticipated future developments in this area.

Presentations will focus on the use of high magnetic fields to generate improved structural images and biochemical analyses of human tissues in vivo. Presentations by noted experts will be followed by open discussion.

Topics will include: \textit{in vivo} imaging of head, chest, and heart; \textit{in vivo} imaging of blood flow and tissue oxygenation; \textit{in vivo} metabolic and biochemical analyses using \textsuperscript{31}P, \textsuperscript{13}C and \textsuperscript{1}H spectroscopy; \textit{in vivo} studies of cardiac function; improvements and limitations of temporal and spatial resolution of \textit{in vivo} images; high speed \textit{in vivo} imaging; safety considerations in high field MRS/MRI; and magnets, coils, and receivers used in high field MRS/MRI.

For further information and registration materials, please contact:
Ms. Judy Corbett, Prospect Associates, 1801 Rockville Pike, Suite 500, Rockville, Maryland 20852, (301) 468-MEET

Sponsored by:
The National Heart, Lung, and Blood Institute

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**Pharmacologist**

Wyeth-Ayerst Laboratories, a major division of Fortune 100 American Home Products Corporation, has a challenging opportunity for a Pharmacologist in our modern pharmaceutical research facility in Princeton, New Jersey.

This position will be responsible for assisting our Central Nervous System Pharmacology Group with work related to the antipsychotic program and the neurodegeneration program as well as supporting the characterization of clinical development candidates. We seek an individual with a BS/MS degree in psychology, neuroscience, psychobiology, or psychopharmacology with 2-5 years relevant experience. Candidates should be experienced with behavioral testing procedures (drug discrimination, acoustic startle response), stereotoxic surgery, histology procedures and drug preparation.

We offer excellent compensation, benefits and career advancement. Our research laboratory is just minutes away from Princeton University and convenient to many other cultural, educational and leisure activities.

Please forward resume with salary requirements to:

**WYETH-AYERST RESEARCH, Personnel, CN 8000, Position #464, Princeton, NJ 08543-8000.**

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

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**Chair of Botany**

(ref. 91/92-85)

Applications are invited for the Chair of Botany which will fall vacant on July 1, 1993 following the retirement of Professor D. A. Griffiths. Applicants should have strong academic qualifications and an outstanding record of research and publications. The successful candidate is expected to provide academic leadership in teaching and research and may be appointed as Head of Department.

The University would prefer to make a permanent appointment, but consideration may be given to applicants for appointment for a fixed-term or on secondment for a period of preferably not less than three academic years. The University reserves the right not to fill the Chair or to fill the Chair by invitation or to make an appointment at a lower level.

Annual salary (superannuable) will be within the professorial range, of which the minimum is HK$650,620 and the average is HK$846,040 (approx. US$1-HK$8,750 as at March 4, 1992). Starting salary will depend on qualifications and experience. At current rates, salaries tax will not exceed 15% of gross income. Housing at a charge of 7.5% of salary, children’s education allowances, leave and medical benefits are provided.

Further particulars and application forms may be obtained from Appointments (40426), Association of Commonwealth Universities, 38 Gordon Square, London WC1H OPF, UK; or from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (Fax (852) 5592058; E-mail: APPTUNIT@HKUVM1.HKU.HK).


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**The University of Hong Kong**

Chair of Botany

(ref. 91/92-85)

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POSITIONS OPEN

POSTDOCTORAL FELLOW
RESEARCH ASSOCIATE

Research associate position available immediately to study immunoglobulin gene expression. Send curriculum vitae, letters of recommendation and telephone numbers of three references to: Dr. Katherine L. Knight, Department of Microbiology and Immunology, Loyola University Medical Center, 2160 South First Avenue, Chicago, IL 60612.
Loyola University Chicago is an Equal Opportunity/Affirmative Action Employer.

U.S. DEPARTMENT OF AGRICULTURE (USDA)

AGRICULTURAL RESEARCH SERVICE (ARS)
POSTDOCTORAL FELLOW
(RESEARCH CHEMIST)

USDA, Human Nutrition Research Center, Carbohydrate Nutrition Laboratory, Baltimore, Maryland, is seeking a recent Ph.D. to study carbohydrate metabolism in relation to lipid synthesis during various stages. Knowledge of mathematical modeling of isotope dilution is desired. Salary is commensurate with experience ($33,423 to $38,681). Appointment is for 2 years. Submit application form APR-4 to: Dr. Judith Halfrisch, Research Leader, USDA, ARS, BHNRC, Carbohydrate Nutrition Laboratory, Building 307, Room 323, Beltsville, MD 20705. Applications in response to this ad should be marked 2801. Minority and women are encouraged to apply. ARS is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

in neunatomy sought to study circuits that regulate the loco coeruleus in rats and monkeys. Recent Ph.D. with expertise in tract-tracing, immunohistochemistry and brainstem anatomy most desired. Position supported by an NIH grant for at least 2 years. Competitive salary and excellent benefits. Respond with your name and names of three references: to: Gary A. Jones, Ph.D., Department of Mental Health Sciences, Halls Hall, Mall Ste. 503, Broad and Vine, Philadelphia, PA 19102-1192.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available 1 July 1992 to investigate various polymers for use as potential arterial substitutes. Studies will involve modification of novel materials with bioactive factors to evaluate the effect upon cellular attachment, spreading, and function in vitro and in vivo. Candidates must have a Ph.D. in biologic sciences or biomedical engineering. Documented experience in cell/tissue interactions is a prerequisite. A qualified candidate will be expected to meet the qualifications for appointment at the Research Instructor level in the Brown University, Department of Surgery. Send curriculum vitae and three letters of reference to: Robert B. Patterson, M.D., Department of Surgery, The Miriam Hospital, 164 Summit Avenue, Providence, RI 02906.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available beginning on or after May 1992, to construct a detailed chromosome map around the eye nettoro resistance (Rh4g) locus in soybean. Ph.D. required. Training in molecular biology and plant pathology is preferred. Salary GS-11 ($32,423 to $35,660). Send curriculum vitae and three references to: Dr. Benjamin J. Matthews, USDA, ARS, Plant Molecular Biology Laboratory, Building 307, Room 118, 10300 Baltimore Avenue, Beltsville, MD 20705-2380. Only U.S. citizens need apply. ARS is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Position (12-month, full-time) examining the properties and function of the A1-adrenergic receptor-containing fatty acid metabolism (FMO) in rabbit and primates. Specific areas of research include protein purification, immunomunological, drug metabolism in vitro and in vivo and isolation of FMO cDNAs. Applications due 1 June 1992 start 15 June 1992 or later. Send letter of application and curriculum vitae to: Dr. David B. Williams, Department of Food Science and Technology, Wiegand Hall, Oregon State University (E.U.), Corvalis, OR 97331-4002. Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

POSITIONS OPEN

UNIVERSITY OF ILLINOIS AT CHICAGO
COLLEGE OF KINESIOLOGY

POSTDOCTORAL RESEARCH ASSOCIATE

Two positions are available in a laboratory that is focused on the mechanisms of topographical regulation of muscle growth. Research emphasis is on interventions that modify the atrophy process, the regulation of gene transcription and expression, and the use of transgenic animals in the studies. Candidates will begin immediately. Earned doctorate required. Send curriculum vitae, publications, and three letters of recommendation to: Dr. Eric E. Hickson College of Kinesiology University of Illinois at Chicago 901 West Roosevelt Road Chicago, IL 60608

MOLECULAR TOOL, INC.

POSTDOCTORAL RESEARCH SCIENTIST

Molecular Tool is a biotechnology company located in Baltimore, Maryland, that is currently developing a highly integrated, DNA-based system for the analysis of genetic and genomic loci. Together with a key industry partner, Molecular Tool has embarked on a significant research and product development program. The position is seeking a dynamic and highly motivated scientist to join a growing multidisciplinary team and complement its expertise in chemistry, biochemistry and molecular biology. The successful candidate will have recently completed a Ph.D. with a research background in the area of DNA or RNA enzymology and biochemistry, and a strong interest in genetic analysis. Significant experience in the John Hopkins University School of Medicine, Molecular Tool, Inc., provides a stimulating scientific environment which encourages individual initiative and creative thinking. Competitive salaries, an incentive program, and medical insurance benefits are also offered. Interested candidates should submit a curriculum vitae, names of three professional references to: Ms. Loretta Burrows, Molecular Tool, Inc., 5210 Eastern Avenue, Alpha Center, Hopkins Bayview Research Campus, Baltimore, MD 21224.

POSTDOCTORAL RESEARCH TRAINEE

The University of Tennessee, Memphis, Department of Physiology and Biophysics, has postdoctoral research trainee positions in two areas: the role of gonadal steroid hormones in the control of vasopressin release and in the cardiovascular actions of vasopressin and hypertension. Background in cardiovascular or neurophysiological techniques in vivo or in vitro is desirable. Position is for one-year or equivalent position depending on experience. Competitive salary, commensurate with experience. Candidates should have a Ph.D. or M.D. degree and have completed Ph.D. studies. Send curriculum vitae, copies of three representative publications and the names of three references to: Dr. Leonard Share, Professor, Department of Physiology and Biophysics, 894 Union Avenue, Memphis, TN 38113. An Equal Opportunity/Title IX/Section 504/Affirmative Action Employer. Minorities and women are encouraged to apply.

RESEARCH ASSOCIATE

To conduct research in the area of endocrine hormones, hypertension and diabetes. This involves Northern, nuclear protection assays and transcription studies. Will supervise technicians, write research reports, and seek funds. Salary: $30,000 per year. Requires Ph.D. and experience in molecular biology. Send curriculum vitae with names and telephone numbers of references and letters of recommendation to: Dr. Bruce S. Chertow, Marshall University School of Medicine, Department of Medicine, Huntington, WV 25701. Equal Opportunity Employer.

RESEARCH ASSOCIATE

Developmental neurobiology of the mammalian visual system. 1 September 1992 to 30 June 1993; reappointment subject to NIH funding. Manage laboratory, perform research, train students. Ph.D. (or equivalent) preferred. Send letter of reference and research experience required. Send curriculum vitae and name/address of three references by 5 May 1992 to: R. C. Van Sluyters, School of Optometry and Vision Science, University of California, Berkeley, CA 94720. The University of California is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE OR STAFF APPOINTMENT to investigate the molecular and cell biology as well as pathogenesis of viral and immune-mediated neurological injury, particularly in association with SIV and related viral infection. Experience in molecular biology of cellular receptors and/or proteases and cytokines is desirable. Candidates will have demonstrated relevant research productivity and experience. Candidates for staff also should demonstrate success in competitive research funding. Forward curriculum vitae to Dr. Thomas Edgerton, Director, AIDS Research Institute, 1066 North Torrey Pines Road, La Jolla, CA 92037. An Equal Opportunity Employer we encourage minority application.

ASSISTANT RESEARCH SCIENTIST

The Department of Cell and Tumor Biology of the City of Hope National Medical Center is seeking a Ph.D. with an interest in tumor biology for a tenure-track position at the level of assistant research scientist. The successful candidate will be expected to develop an independent research program with preference given to applications in the areas of cell and molecular genetics. Areas of particular interest include studies of gene rearrangement and chromatin integrity, control of the cell cycle, and the regulation and growth control. The City of Hope, as an NCI Cancer Center, has excellent facilities for DNA, peptide and RNA synthesis, and DNA sequencing, mass spectrometry, molecular modeling and molecular cloning. The center also offers the opportunity for interaction with medical oncologists and provides access to an extensive solid tumor bank and cancer registry. The successful candidate will also have the opportunity to participate in an NIH-funded research training program for Surgical Oncology Fellowship. Send curriculum vitae and a brief summary of research objectives to: Steven S. Smith, Department of Cell and Tumor Biology, City of Hope National Medical Center, 1500 East Duarte Road, Duarte, CA 91010. Affirmative Action/Equal Opportunity Employer.

RESEARCHER. Research within laboratory of the division of basic research of the Department of Pediatrics related to molecular and immunohistochemical characterization of aspects of the developmental biology of the retina. The successful candidate will have knowledge of recombinant antibody, recombinant DNA, and primary culture techniques will be used to examine expression of genome. Position requires M.S. or B.S. in biology. If M.S. degree 3 years of experience, if B.S. degree 5 years of experience. The experience requirement must include 2 years of research in neurite outgrowth from retina explant, also 3 years of research in cell membrane and extracellular matrix. Forty hours per week, 8:00 a.m. to 5:00 p.m., $25,000 per year. Send resumes in duplicate (no calls) to: J. Davies, #5 1230825, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216. Must have proof of legal authority to work permanently in the United States.

ASSISTANT LANDSCAPE HORTICULTURE SPECIALIST IN COOPERATIVE EXTENSION (75%) AND THE AGRICULTURAL EXPERIMENT STATION (25%). The appointee is expected to carry out a program of extension and applied research in landscape horticulture. Ph.D. or equivalent in plant physiology, ecology, horticulture, or related field is required. Experience in cooperative extension and/or postdoctoral research experience are desirable. Submit curriculum vitae and names and addresses of three references to: Richard J. Evans, Search Committee Chair, Department of Environmental Horticulture, University of California, Davis, CA 95616—8887; telephone: 916—752—6651 or 916—752—0130. Closing date: 15 May 1992. Position available: 1 July 1992.

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

SCIENCE • VOL. 256 • 3 APRIL 1992
The expected duties include: independent research in areas of experimental and theoretical cardiac electrophysiology, collaboration with members of the CVRTI on projects of common interest, teaching seminars and research presentations, both at the CVRTI and in other university departments, supervision of graduate students, and coordinating the management and operation of the UNIX computer systems in the CVRTI.

The position will be open until May 3, 1992 or until a suitable candidate is identified. Send resume and references to Dr. Robert Lux, University of Utah, CVRTI, 500 S. Fort, Salt Lake City, UT 84112. Salary negotiable on the basis of qualifications and previous experience (minimum of $38,000 per 12-month). The University of Utah is an Equal Opportunity and Affirmative Action Employer.

THE ACADEMY OF NATURAL SCIENCES
BENEDICT ESTUARINE RESEARCH LABORATORY

The Academy is seeking candidates for Director of its estuarine research lab on the Chesapeake Bay (the Benedict Estuarine Research Laboratory, Benedict, MD). The Academy is internationally known for its pioneering research on aquatic ecosystems. The Chesapeake lab is part of the Academy's Division of Environmental Research which consists of a network of three labs and a total staff of 100. Research in the Division focuses on the stream-river-estuary continuum, and specifically on watershed and land margin processes which link basic and applied research programs. The laboratory currently maintains research strengths in the areas of biogeochemistry, nutrient chemistry, plankton ecology, and population biology and ecology.

The Academy is currently involved in a capital campaign to relocate the laboratory to a new, state-of-the-art facility on the Chesapeake. The successful candidate must have a broad programmatic focus and a distinguished research career in some aspect of estuarine science. The position offers a unique opportunity to communicate with a broad spectrum of the public, from policy-makers, to corporate executives, to interested citizens, to prospective donors. The director will maintain continuity of an existing, well-integrated research program, as well as explore new avenues for both team and individual programs.

Please send curriculum vitae, a letter stating background and interests in environmental research, policy and public education, and the names and telephone numbers of four relevant references to:

Dr. Louise E. Sage, VP Academy of Natural Sciences 1900 Benjamin Franklin Parkway Philadelphia, Pa. 19103-1195
An equal opportunity employer.

POSTDOCTORAL OPPORTUNITIES

Share Our Worldwide Commitment To Research.

Lilly Research Laboratories, a division of Eli Lilly & Co., is one of the most distinguished research facilities in the pharmaceutical field.

A postdoctoral fellowship here offers several impressive advantages. Working with highly respected Lilly scientists on state-of-the-art equipment, you'll gain in-depth research training and experience while becoming acquainted with the pharmaceutical industry. In addition, you'll have the opportunity to share your knowledge as our postdocs are encouraged to publish, attend at least one major conference a year, and interact with other Lilly scientists and postdocs through our formal speaker series and less formal meetings.

All positions are for one year, renewable for a second year upon mutual agreement. Lilly provides competitive pay and a comprehensive benefits package which includes a generous relocation allowance. Candidates with more than one previous post doctoral experience are encouraged to send a CV to: Albert L. Peyton, PhD, Senior Personnel Recruitment Representative, Dept. SA043, Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285. Equal Opportunity Employer.

BIOTECH UPDATE

Genetically engineered crop protection brings a new dimension to agriculture.

At the Agricultural Research Division of American Cyanamid, we've developed a significant in-house biotechnology capability. Our work has fostered major advances in the development of imidazolone-resistant corn and in the near future we expect to introduce the first world crop with herbicide resistance. At our 640-acre campus-like setting, you'll discover state of the art research laboratories and an interdisciplinary work environment where innovative thinking is nurtured. Right now we have an immediate opportunity for:

Cell Biologist

The BS/MS level scientist we seek for our Cell Biology and Genetics Group will conduct research in the area of plant transformation. This position will involve using cell biology, biochemistry, and plant transformation techniques in the development of novel transformation technologies and their application to agronomically important monocots. Training in plant tissue culture and experience in plant transformation are required. Experience in monocot cell culture is desirable.

In addition to our unique interdisciplinary environment and history of new product innovations, American Cyanamid Company offers a competitive salary and excellent benefits, including a 401K Savings Plan. We invite you to forward your resume and salary history to: Employment Office, Dept. WS2, American Cyanamid Company, Agricultural Research Division, P.O. Box 400, Princeton, NJ 08543-0400. An Equal Opportunity Employer M/F/H/V.
**VETERINARY ASSISTANT**

**Microinjector: Transgenic Core Facility**

Bristol-Myers Squibb, a worldwide leader in the development and marketing of sophisticated pharmaceutical, medical care, consumer and nutritional products, has an exceptional opportunity for assistant or associate level scientists at the Pharmaceutical Research Institute in Wallingford, CT.

This position in the Veterinary Sciences Department Transgenic Core facility is available to applicants with a BS/BA in Biology and 2-4 years of experience in embryo microinjection and related techniques. Successful candidates will perform all aspects of production, Macintosh-based computer tracking, and coordination of animal model handling and husbandry. Cryopreservation or ES cell culture experience will be an asset.

The Transgenic Core Facility is a central transgenic animal model production service for all Bristol-Myers Squibb Pharmaceutical Research Institute locations. This position will be part of a growing team in a service-oriented core facility with extensive clinical veterinary support.

Bristol-Myers Squibb offers the advantages of sustained career growth, highly competitive salaries and extensive benefits. Please send resume with salary requirements to: Bristol-Myers Squibb Pharmaceutical Research Institute, Dept. ATZ-92-0150, P.O. Box 1500, Wallingford, CT 06492-7660. Equal Opportunity Employer, M/F/D/V.

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**Life Sciences Research Laboratory**

Baxter Diagnostics Inc., Life Sciences Research Laboratory (LSRL) is proud to announce the opening of our state-of-the-art facility in San Diego, CA. The LSRL is dedicated to conducting basic and applied research and its scientists are involved in multidisciplinary studies focused on the diagnosis of infectious and genetic diseases. The staff is currently seeking outstanding and highly motivated applicants who can make significant contributions to research programs in molecular virology and nucleic acid chemistry.

**Staff Scientist**

**Bio-Organic Chemistry**

A staff scientist level position in the area of Bio-organic Chemistry. The successful candidate should possess:

- Ph.D. with two years or more of postgraduate experience in synthetic organic chemistry, protein biochemistry and enzymology.

**Assistant/Associate Research Scientist**

**DNA Diagnostics**

- B.S. degree with 1-2 years experience in molecular biology and/or bio-organic chemistry.
- Knowledge of gene amplification methods, nucleic acid chemistry and enzymology is desirable.
- Duties will involve development and applications of nucleic acid amplification methods.

**Reagent Preparation/DNA Diagnostics**

- B.S./M.S. in Chemistry/Biochemistry.
- Experience in organic synthesis, chromatographic and spectrographic techniques.
- Will be involved in reagent preparation and responsible for developing chemical approaches for DNA diagnostics.

**Retrovirology**

- B.S./M.S. degree and 3-5 years research experience in virology and mammalian cell culture.
- Preference given to those with experience in propagation of the HIV-1 virus and in Molecular Biology techniques.
- Will participate in studies on the regulation of HIV-1 growth and resistance to antiviral drugs.

Interested applicants should send a CV and the names of three individuals to sponsor letters of reference to: Director, Life Sciences Research Laboratory, Baxter Diagnostics Inc., P.O. Box 910492, San Diego, CA 92121-0492. We are an equal opportunity employer.

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**BIOCHEMIST/MOLECULAR BIOLOGIST**

Merck Research Laboratories is seeking a research scientist with MS or equivalent experience to join the Department of Fermentation Microbiology. The successful applicant will be responsible for the purification and cloning of enzymes from microorganisms which synthesize and transform natural products and the isolation of these products.

Merck Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. Interested applicants should submit a curriculum vitae, including 3 references, to: Christine L. Cantone, Associate Manager, Merck Research Laboratories, R80 A-3, AD 112, P.O. Box 2000, Rahway, New Jersey 07065-0900.

EEO/AA/VH/Employer.

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**TRUDEAU INSTITUTE, INC.**

**BASIC RESEARCH SCIENTISTS**

**Infectious Diseases Immunologist**

A vacancy exists at the assistant professor level for an immunologist interested in employing modern immunological techniques to analyze immunity to infections with microbial pathogens. The successful applicant will be supplied the resources to develop his/her independent research program within the overall infectious disease program of the Trudeau Institute. Persons interested in developing models of immunity to intracellular pathogens are encouraged to apply.

The Trudeau Institute is a not-for-profit, basic research institute. Salaries and benefits are competitive, and working conditions are conducive to a productive research career.

Applications consisting of a curriculum vitae, the names and addresses of three references, and a brief description of research interests, should be addressed to:

Dr. Robert J. North, Director
Trudeau Institute, Inc.
P.O. Box 59
Saranac Lake, NY 12983
MOLECULAR BIOLOGIST/STAFF SCIENTIST
Responsibilities include the investigation of enzymes, ligands and receptors for leukocyte adhesion and extravasation. Successful candidate will possess a Ph.D. with postdoctoral experience in academia or industry reflecting thorough technical expertise and a proven record in molecular biology. Problem-solving skills and experience supervising research activities are essential. Background involving cell biology and biochemistry is highly desirable. (5104)

For this Cambridge-based position, please send curriculum vitae and letter of interest specifying department code to: Human Resources Department, Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140.

POSTDOCTORAL FELLOW—Biological Mass Spectrometry
As part of our Postdoctoral Fellowship Program, we seek a talented, highly motivated individual with an appropriate, in-depth background to contribute to biomolecular mass spectrometry within the Structural Protein Chemistry group. Laboratory facilities encompass a four-sector tandem mass spectrometer, MALD-TOF mass spectrometer, protein microsequencing and carbohydrate characterization technologies. Qualifications include experience in mass spectrometric analysis of biomolecules, and demonstrated interest in developing and implementing instrumental and chemical-based strategies for the structural analysis of recombinant glycoproteins. (1143)

STAFF SCIENTISTS—Glycoprotein/Carbohydrate Structure
We seek two highly motivated individuals with a strong interest in pursuing studies involving glycoprotein structure and structure/ function. Responsibilities include the isolation and structural characterization of glycoconjugates, and the assessment of the impact of glycosylation on the pharmacological, biological and biophysical properties of recombinant proteins. Both positions call for expertise in the isolation, structural and functional characterization of carbohydrates and glycoproteins including experience with NMR spectroscopy. A Ph.D., excellent communication skills and a desire to work in a collaborative environment are essential. Background involving mass spectrometric glycoprotein structural analysis (FAB-MS/MS, GC/MS, MALD-TOF MS, etc.) would be a definite plus. In addition, one position requires up to 2 years’ postdoctoral experience; the other requires 5+ years’ postdoctoral or industrial experience, along with a record of scientific leadership and accomplishment. (1141)

STAFF SCIENTIST—Formulation Development
Develop liquid and lyophilized formulations for protein pharmaceuticals, as well as devise analytical methods for the characterization and stability monitoring of the formulated pharmaceuticals. Responsibilities include preparing reports for IND and NDA filings. Ph.D. in Biochemistry or Analytical/Pharmaceutical Chemistry, and 2-5 years’ relevant experience are required, along with good communication and interpersonal skills. Expertise in chromatography, electrophoresis, spectroscopy, and thermal analysis is preferred. (1140)

For these Andover-based positions, please forward curriculum vitae and letter of interest specifying department code to: Human Resources Department, Genetics Institute, Inc., One Burli Road, Andover, MA 01810.

RESEARCH SCIENTISTS: Medicinal Chemistry
Gilead Sciences, an innovative and rapidly growing biotechnology company, is a leader in the development of a broad new class of nucleotide-based pharmaceuticals for the treatment of viral diseases, cancer, and cardiovascular diseases. We offer a vigorous research environment for exceptional individuals committed to the development of significant new human therapeutics.

We are looking for Scientists with a Ph.D. in organic or medicinal chemistry and two postdoctoral training with 0 to 5 years of relevant experience and demonstrated ability in the design, synthesis, and improvement of novel biologically-active agents. Successful candidates will join a multi-disciplinary team of scientists pursuing the development of anticancer, antiviral, and cardiovascular therapeutic agents.

Gilead Sciences is located in the San Francisco Bay Area and offers a stimulating scientific environment with excellent salary, benefits, and stock options. Please send CV and reference this ad and position to: Human Resources Administrator, Gilead Sciences, Inc., 346 Lakeside Drive, Foster City, CA 94404.

Zynaxis Cell Science, Inc., is seeking scientists to participate in: research and development of therapeutic products which utilize lipophilic "Zyn-linkers" for localization and retention of therapeutic agents useful in cardiovascular disease, arthritis and cancer; development of cellular diagnostic immunoassay kits.

Organic Chemist (Development) - Optimize methods for preparation and purification of "Zyn-linkers." This will include scale-up of synthetic procedures to multigram levels and the development of analytical methods/specifications for contract and/or GMP production. Requires a Ph.D. in Organic Chemistry and 3-5 years experience in industrial synthetic chemistry (preferably lipid chemistry).

Immunopharmacologist - Characterize in vivo efficacy of "Zyn-linked" radio- and chemotherapeutic agents as part of arthritis program. Establish rabbit antigen-induced arthritis model and testing of new compounds in the model. Requires a Ph.D. 2-4 years experience with animal arthritis models. Veterinary pathology skills and experience with radiolabeled compounds preferred.

Preformulation/Metabolism Scientist - Develop characterize vehicles for delivery of "Zyn-linked" radio- and chemotherapeutic conjugates by catheter or injection. Develop HPLC systems for use in stability, metabolism, and kinetic studies of conjugates in serum and blood. Requires Ph.D./M.S. and 2-5 years experience in preformulation or drug metabolism. Strong HPLC background necessary.

Protein Conjugation/Immobilization Chemist - Provide protein chemistry support for the generation and scale-up of reagents used in the development of in vitro diagnostic immunoassays. Ph.D. or BS/MS with 5+ years experience including a background in the immobilization of antibodies to solid surfaces is required.

Process Development and Production Specialist - Responsible for process development/production of immunoassay kits and in vitro diagnostics. Requires Ph.D. or BS/MS with 5+ years industrial experience including a background in GMP production of immunoassay kits.

Please forward your resume, indicating position of interest, to: Dept. G, ZYNAXIS CELL SCIENCE, INC., 371 Phoenixville Pike, Malvern, PA 19355. An equal opportunity employer.
RESEARCH ASSOCIATE. One postdoctoral position is available immediately to work in the field of insulin signaling with special focus on the mechanisms of generation of inositolglycans and the role of G proteins on insulin signal transduction. Salary range is negotiable. Please see current list of references to: Guillermo Romero, Ph.D., Department of Pharmacology, University of Pittsburgh, School of Medicine, W1345 Biomedical Science Tower, Pittsburgh, PA 15261. Equal Opportunity/Affirmative Action Employer.

ASSISTANT SPECIALIST. Full-time position is available in Molecular and Cell Biology, Division of Biochemistry and Molecular Biology. Duties are to conduct research on the mechanism of papilloma virus transformation and/or development of viral minigenes by means of in vitro transcription, study of relationships between the viral replication and transcription apparatus; and characterization of host cell factors interacting with the viral genome. Qualifications required include Ph.D. in molecular biology with detailed knowledge of papilloma viruses and research in the above areas. Salary range is $30,540 to $34,968, depending on qualifications. Approximately starting date: 15 May 1992. Application deadline: 2 May 1992 or 30 days from publication date. Qualified candidates should send application to: Dr. Michael Botchan, University of California (UC), Division of Biochemistry and Molecular Biology, 401 Barker Hall, Berkeley, CA 94720. UC Berkeley is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMIST/NEUROBIOLOGIST. The Department of Pathology and Laboratory Medicine at the University of Pittsburgh School of Medicine seeks a tenure-track senior level Ph.D. biochemist/neurobiologist with a funded, independent research program focused on cellular and molecular studies of aging and neurodegenerative diseases. The candidate should have contemporary research skills in cell culture, hybridoma technology, protein and peptide chemistry as well as an interest in neurodegenerative disease in his/her respective area of research. He/she should possess organizational and leadership abilities in order to develop a new multidisciplinary research program based on in vitro and in vivo models of diseases of the aging nervous system that complement an existing research program on aging and neuron death in humans. The candidate will join the Division of Anatomic Pathology and he/she will be expected to contribute to the teaching mission of the department as well as to the clinical activities of the Molecular Diagnosticians. Applicants should have Ph.D. or equivalent in Anatomic Pathology. Interested individuals should send curriculum vitae and the addresses of three references to: Giuseppe G. Pietra, M.D., Ph.D., Associate Director of Anatomic Pathology, University of Pennsylvania, Hospital of the University of Pennsylvania, 3400 Spruce Street, 6 Founders Pavilion, Philadelphia, PA 19104. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL SCIENTISTS. The Smithsonian Institution has two civil service career openings to join an interdisciplinary basic research team conducting long-term studies in the Chesapeake Bay region. One position is for an ENVIRONMENTAL PHOTOBIOLOGIST (announcement #92-30232Q). Salary for either position is $38,860. Applicants must be U.S. citizens. For full details please telephone: 202-287-3102, press 9. Ask for the appropriate vacancy announcement above, and a full application package. Applications must be received by 15 May 1992. Equal Opportunity Employer/Affirmative Action.

FERMENTATION MICROBIOLOGISTS AND BIOCHEMIST. BioEnergy is a new company committed to the biocomversion of biomass to ethanol. These studies involve strain selection, fermentation, and analysis of substrates and fermentation products. Bachelor or master of science in microbiology, biochemistry, and experience in fermentation is required. Additional experience in pretreatment of biomass and analysis of carbohydrates and fermentation products is desirable. Please send curriculum vitae and references to: Quadrex Corporation, P.O. Box 4100, Gainesville, FL 32613, attention: Personnel Office. Equal Opportunity Employer, M/F/H/V.
**PROTEIN CHEMIST**

Merck Research Laboratories is currently offering an excellent career opportunity for a Protein Chemist to join the Department of Cellular and Molecular Biology. The selected individual will do research on the purification and characterization of recombinant proteins from microbial and animal cell cultures, as well as nuclear sources. Functions also include scaling-up processes for preparing proteins for clinical studies under cGMP.

Requirements include a Ph.D. in chemistry or biochemistry and at least two years relevant experience in protein isolation and analytical biochemistry with knowledge of protein structural analysis by chemical and spectroscopic means. Experience in large-scale bioseparations by HPLC and open column methods is desirable. Excellent writing and oral communication skills, a sound publication record and the ability to work in a team situation are necessary.

Excellent salary and benefits accompany this position. Our West Point laboratories are located 25 miles northwest of Philadelphia. Please send resume with salary requirements to Merck Research Laboratories, Manager, Ad 9-9, West Point, PA 19486. EEO/AA/VIH Employer.

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**RESEARCH SCIENTISTS**

**Gilead Sciences**, an innovative and rapidly growing biotechnology company, is a leader in the development of a broad new class of nucleotide-based pharmaceuticals for the treatment of viral diseases, cancer, and cardiovascular diseases. We offer a vigorous research environment for exceptional individuals committed to the development of significant new human therapeutics.

We are looking in the following areas:

**APTAMERS**

Gilead Sciences has developed a drug discovery technology which allows the identification of nucleotide-based affinity agents selected against important disease-causing targets. [See Nature, (1992), 355: 564–566].

**Molecular Biologists** Ph.D. with at least 2 years postdoctoral training and a strong background in either nucleic acid or protein chemistry. The positions entail either working on the development of aptamers directed against therapeutically important targets, or the application of novel chemistries to aptamer development.

**SMALL MOLECULES**

A number of life-threatening viruses are the targets of Gilead’s nucleotide-based small molecule program.

**Virologist** Ph.D. and/or M.D. with at least 2 years of postdoctoral experience in virology including cell culture and animal models of viral infections. We are particularly interested in individuals to work with both our virology and pharmaceutical development groups to establish cell culture and animal-based systems for the discovery and testing of antiviral agents.

**Biochemist/Enzymologist** Ph.D. and at least 2 years of postdoctoral experience in nucleic acid enzymology (e.g. polymerases, endonucleases, transcription factors) to study structural and functional relationships of a number of viral enzymes. This position will require close interaction with our chemistry division in the design and testing of potential antiviral agents.

**Molecular Virologist** Ph.D. and/or M.D. with at least 2 years of postdoctoral experience working on molecular approaches to viral pathogenesis. We are particularly interested in individuals who are experienced in working with herpesviruses, hepadnaviruses, or HIV.

Gilead Sciences is located in the San Francisco Bay Area and offers a stimulating scientific environment with excellent salary, benefits, and stock options. Please send CV and reference this ad and position to:

Human Resources Administrator
Gilead Sciences, Inc.
346 Lakeside Drive
Foster City, CA 94404

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**Post Doctoral Research at The Wistar Institute**

The Wistar Institute, an independent research organization located on the campus of the University of Pennsylvania, is currently seeking Post doctoral applicants interested in cancer-oriented research. Wistar has maintained a reputation for pioneering work and ground-breaking accomplishments since its founding nearly 100 years ago.

Fellows can anticipate a stimulating and challenging experience in the tradition of strong interdisciplinary collaboration within an environment utilizing state-of-the-art biotechnology. Wistar’s general areas of research interest include: Molecular Oncology, Molecular Virology, Cell and Developmental Biology, Tumor Biology & Immunology, Cell & Molecular Immunology and Structural Biology.

Interested applicants are requested to send a Curriculum Vitae and the names of three references to: Coordinator of Research Training, THE WISTAR INSTITUTE, 36th & Spruce Streets, Philadelphia, PA 19104.

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Equal Opportunity Employer
ECOLOGIST, FISHERY BIOLOGIST (RESEARCH) OR OPERATIONS RESEARCH ANALYST. The U.S. National Marine Fisheries Service announces a permanent interdisciplinary position with a group focusing on the sustainability of Pacific salmon populations. Candidates should have a Ph.D., or comparable experience, with a background demonstrating the ability to design and conduct research projects pertaining to demographic, genetic, and environmental factors affecting the abundance of natural populations; population viability analysis; and the biological implications of alternative management strategies. The incumbent will employ specialized knowledge from a variety of relevant disciplines to develop original mathematical models and methodologies. The successful candidate will have a strong quantitative background and experience analyzing the dynamics of natural populations; experience with fish populations is desirable but not essential. Salary: GS-12, $38,861 to $50,516 annually. Application (SF-171), and curriculum vitae must be received by close of business on 5 May 1992 at: WASC, Personnel Division, 7600 Sand Point Way N.E., Seattle, WA 98115-0070. Attention: P. Miaci, 206-526-6048. Enter announcement number W/SNC92-146PM on item #1 of SF-171. Equal Opportunity Employer.

SENIOR INORGANIC CHEMIST: The Department of Chemistry at the University of California, Santa Barbara (UCSB), is initiating a search for a senior inorganic chemist as a replacement for Ralph G. Pearson, who has recently become Professor Emeritus. The timing of this appointment is planned to correspond to the scheduled 1993 completion of a 61,430 ASF addition to the Chemistry Building. Only those individuals with an outstanding record of research and teaching will be considered. The specific sub-field is open and applications will be accepted until this position is filled. Persons interested in applying or obtaining further information are urged to write: Chair, Inorganic Search Committee, Department of Chemistry, University of California, Santa Barbara, CA 93106–9810. Equal Opportunity/Affirmative Action Employer.

MEETINGS


COURSES AND TRAINING

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain the Doctor of Optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education and research. Contact: Dr. D. Chauncey, Program Director, Accelerated Program, The New England College of Optometry, Room S, 424 Beacon Street, Boston, MA 02115.

SOMATIC CELL AND MOLECULAR GENETICS WORKSHOP, 12 to 26 July 1992. Intensive, 2-week, "hands-on" introduction to the methodology and concepts of current tissue culture and molecular biology procedures. Also provides basic techniques needed for initiating genome mapping studies. This course is designed for established scientists who need to get to grips with these techniques for their continuing programs. Registration fee: $200. Partial per diem provided. Enrollment limited to 16 students. Applications accepted until 30 April 1992. Applicants should submit a letter describing how the workshop will assist their current research, along with curriculum vitae which lists publications (no abstracts) for the past 5 years only, to: Peggy J. Woodson, Somatic Cell and Molecular Genetics Workshop, Eleanor Roosevelt Institute, 1899 Gaylord Street, Denver, CO 80206. Telephone: 303-433-4515. The Eleanor Roosevelt Institute is an Equal Opportunity/Affirmative Action Institution and invites and encourages applications from women and minorities. Open to U.S. citizens and permanent residents only.

ANNOUNCEMENTS

POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY 1993 TO 1996

The Irvington Institute for Medical Research will award up to ten postdoctoral fellowships in immunology for three consecutive years of work in a laboratory or hospital in the United States. A laboratory may qualify for only one fellow per year.

This year only, one of the ten awards will be offered to support a project focusing on juvenile diabetes. The other fellowships will be awarded for basic immunologic research.

M.D.'s, Ph.D.'s, and M.D./Ph.D.'s are encouraged to apply. Candidates with not more than 3 years of laboratory experience will receive priority.

The institute will pay a stipend of $22,000, $24,000, and $26,000 for years one, two, and three, with an additional $2000 each year paid directly to the host institution to help cover the costs of health insurance, travel and supplies.

The deadline for filing applications is 17 August 1992. The Institute will notify applicants in November 1992 whether they have been selected to receive a fellowship to begin 1 July 1993.

Applications may be obtained by writing to the Fellowship Coordinator, The Irvington Institute for Medical Research, 120 East 56th Street, New York, NY 10022. FAX: 212-756-8968.

TRANSGENIC MOUSE PRODUCTION

The National Transgenic Development Facility operated by DNX, Inc., and funded by the National Institute of Child Health and Human Development (NICHD) is now accepting applications for submission of DNA constructs for the production of transgenic mice. The application deadline for the July to December 1992 microinjection session is 1 June 1992. The cost of these transgenic services is subsidized by the NICHD. For information and application materials contact: DNX, Inc., 303B College Road East, Princeton, NJ 08540. Telephone: 609-520-0300. FAX: 609-520-9864.


COMPUTER MARKETPLACE

The Gene Construction Kit* This DNA manipulation, design, and drawing tool substantially shortens construction history and produces publication quality output from your Macintosh. Additional graphical manipulations of DNAs while tracking ligations. DNA can be displayed in sequence or graphics. Cell built in. Fax: 216-264-5314.

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- UV-fluorescent rule on 20cm x 20cm gel tray
- molded rubber gel casting dams
- buffer recirculation ports
- built-in level and leveling feet
- safety interlock lid
- leak-free molded construction
- price - $345.00

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