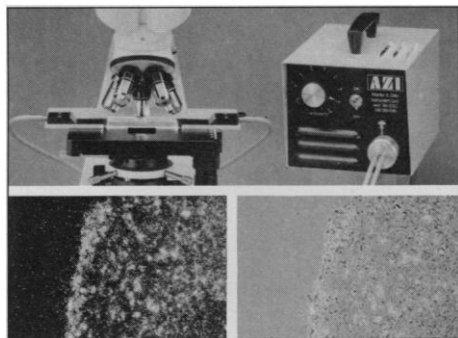


Products & Materials

Light Microscope Illuminator

Darklite is a new form of illumination for the light microscope that provides uniform lateral dark-field illumination to an entire 25 mm by 75 mm slide, thus accommodat-



ing objectives from 1× to 100×. Because Darklite is stage-mounted, the microscope condenser remains in place, thereby allowing dark-field to be combined with other transmitted light techniques, such as bright-field, phase-contrast, or differential interference contrast, in order to highlight background tissue or cells. The Darklite illuminator is suitable for imaging silver grains and gold particles, and advantageous for image analysis applications because it eliminates the hot spot often present with conventional dark-field. Micro Video Instruments. Circle 333.

DNA and Protein Matching Software

Molmatch is a software package and digitizing tablet that allows the user to size, store, and manipulate DNA or protein data from electrophoretic gels. Molmatch features pattern matching in conjunction with user-created fingerprint libraries. Gel images are digitized and stored; thousands of tracks can be stored in each library. The user can build composite files, which can then be displayed on the screen, numerically or graphically, to allow comparisons. Molmatch

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

complements Ultra-Violet Products' GDS2000 Gel Documentation System. It comes complete with digitizing tablet and runs on IBM-compatible computers. Ultra-Violet Products. Circle 334.

In Vivo Electrochemistry System

The IVEC-5 in vivo electrochemistry system enables the user to measure extracellular neurochemical changes in the brain at speeds approaching physiological events. IVEC-5 offers speed, spatial resolution (as fine as 35 μ m), and submicromolar sensitivity in measuring dopamine, serotonin, and norepinephrine. Chemical concentrations are measured through voltammetry to record calibrated oxidation and reduction responses. Electrical currents, measured at microelectrodes placed at the prepared site, are amplified and the signals are directed to a computer for analysis. Medical Systems Corp. Circle 335.

Reagent Set for DNA Synthesis

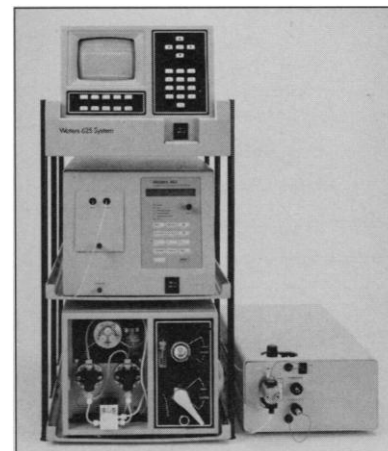
Repli-pack contains premixed, color-coded solutions that are guaranteed to work in a variety of DNA synthesis applications. The set contains a 10× buffer optimized for use with DNA polymerases, a separate vial of magnesium chloride, a premixed nucleotide solution, and a vial of 0.05% gelatin. The solutions are tested for the absence of DNases, RNases, and contaminating DNA fragments. Boehringer Mannheim Corp. Circle 336.

Monoclonal Antibodies

The monoclonal antibodies JES-2A5 and SXC-1 are available for use in IL-10 enzyme-linked immunosorbent assays. Pharmingen. Circle 337.

Carbohydrate Analysis System

The Carbohydrate Analysis by Pulsed Amperometric Detection System is designed for such applications as glycoconjugate characterization, carbohydrate identification in natural products, and low level simple sugar analysis in processed foods. It is a modular system consisting of the Waters 625LC, a nonmetallic, low dispersion, four-solvent gradient pumping system with a nonmetallic variable volume injector; the Waters 464



Pulsed Electrochemical Detector, which is 20 to 40 times more sensitive than refractive index detection for carbohydrates; and a Post-Column Addition System for enhanced detector sensitivity and stability. Waters Chromatography Division of Millipore. Circle 338.

Embryo Manipulation Media

EMBRYO CLEAN Kit has been designed to speed up the process of isolating mouse embryos by avoiding lengthy procedures of media preparation. The reagents contain all the nutrients required to maintain the quality and viability of embryos. The kit includes two different media to manipulate embryos outside the incubator or in a 5% carbon dioxide environment. Biotecx Laboratories. Circle 339.

Literature

1991-1992 Catalog features a comprehensive line of synthetic peptides, substrates, protected amino acids, and resins. Bachem California. Circle 340.

New Products Preview for 1992 is a brief catalog of electrophoresis equipment, acrylic labware, and radiation safety products. Owl Scientific Plastics. Circle 341.

Accessories for Microscopy, 1992/93 Catalog, lists a wide range of products. Ernest F. Fullam. Circle 342.

Only FTS Takes You to These Extremes is a brochure on a line of cooling products. FTS Systems. Circle 343.

Cayman Chemical Volume 6 is a 144-page catalog that describes a range of hydroxy, hydroperoxy, and epoxy fatty acids; prostaglandins; prostacyclins; thromboxanes; inhibitors; agonists; antagonists; enzymes; and enzyme immunoassays for researchers in the eicosanoid and related areas. Cayman Chemical. Circle 344.



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POSITIONS OPEN

The Department of Anesthesia at the University of Pennsylvania seeks applications for the position of **ASSISTANT PROFESSOR** (tenure track). The successful candidate is expected to develop a research program on mechanisms of anesthetic action, with special emphasis on the peripheral vascular effects of anesthetics. Experience in whole animal techniques, microcirculation, signal transduction mechanisms, and cell biology is desired. Responsibilities include directing a tissue culture facility, teaching graduate and medical students, and participation in collaborative research programs. Applicants must have an advanced degree (Ph.D., M.D.), relevant postdoctoral research experience in pharmacology or a related discipline, and a strong record of research accomplishment. Proven potential to develop an independent research program with extramural funding is expected. The primary appointment will be in the Department of Anesthesia; a joint appointment in the tenure track in the appropriate basic science department is required for basic scientists. Candidates should submit their curriculum vitae, names of three references and a statement of research and career goals to: **David E. Longnecker, M.D., Chairman, Department of Anesthesia, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104-4283**, by 20 March 1992. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF BIOLOGY. Antioch College seeks applicants and nominees for a tenure-track position as an assistant professor of biology to begin 1 September 1992. Candidate should have a completed doctorate and experience in biochemistry, developmental biology, or molecular evolution. Antioch seeks an individual who has a commitment to liberal arts undergraduate teaching and the involvement of students in research. In addition, the successful applicant will show evidence of potential to make creative contributions to our interdisciplinary programs designed to prepare undergraduate science majors for graduate and professional training in the biomedical and environmental sciences/studies. Antioch College is particularly interested in candidates who are able to incorporate ethnic, gender, and minority concerns into the context of their regularly offered courses. Send nominees and applicants, including three references, to: **R. Eugene Rice, Dean of Faculty, Antioch College, 795 Livermore Street, Yellow Springs, OH 45387.** The search committee will begin reviewing applicants on 15 March 1992, and will continue to accept applications until a candidate is selected. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR OF BIOLOGY ASSISTANT CURATOR IN INVERTEBRATE ZOOLOGY HARVARD UNIVERSITY

The Department of Organismic and Evolutionary Biology of Harvard University seeks to make an appointment of an invertebrate systematist with expertise on a group of living organisms other than insects, echinoderms, or mollusks. The candidate will be expected to interact with, and teach, students at the graduate and undergraduate levels and must be willing to accept curatorial responsibilities of part of the collection of invertebrate animals in the Museum of Comparative Zoology.

Applications should include curriculum vitae, representative reprints, and three letters of recommendation and should be sent by 9 March 1992 to: **Professor K. J. Boss, Department of Organismic and Evolutionary Biology, 26 Oxford Street, Cambridge, MA 02138.**

Harvard University is an Equal Opportunity/Affirmative Action Employer. We especially invite women and underrepresented minorities to apply.

ELECTROPHYSIOLOGIST/HISTOCHEMIST with experience in the olfactory system; **ASSISTANT PROFESSOR** (nontenure track) position. To join research team investigating neurodegenerative disorders and olfactory dysfunction. Interest in centrifugal olfactory pathways useful, as well as interest in axoplasmic transport. Contact: **Dr. Richard L. Doty, Director, Smell and Taste Center, Department of Otorhinolaryngology: Head and Neck Surgery, School of Medicine, University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104.** *The University of Pennsylvania Medical Center is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY, BACTERIAL PATHOGENESIS

The Department of Immunology and Medical Microbiology invites applicants for a 12-month tenure-track research and teaching position to complement ongoing Programs in Bacterial Pathogenesis, Molecular Genetics, Virology and Immunology. The individual will be expected to develop an independent research program preferably in molecular pathogenesis of bacteria at the **ASSISTANT PROFESSOR** level, although the rank is negotiable. Well-qualified individuals with interests in closely related areas will also be considered. M.D. or Ph.D., plus postdoctoral experience. Send curriculum vitae, bibliography, brief description of research plans, and names and addresses of three references by 15 May 1992 to: **Dr. James B. Flanagan, Box 100266 JHMH, University of Florida, Gainesville, FL 32610-0266.**

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ASSISTANT PROFESSOR

The Division of Cellular and Molecular Biology at the Dana-Farber Cancer Institute and the Department of Biological Chemistry and Molecular Pharmacology at Harvard Medical School are conducting a search for an assistant professor. We are interested in identifying applicants who are addressing contemporary issues in cell biology or development using model systems that are amenable to genetic or biochemical analysis like, but not confined to, yeast or mice. In addition to developing a basic research program the successful candidate will be expected to participate in educational activities at the Dana-Farber Cancer Institute and Harvard Medical School.

Interested candidates should submit curriculum vitae, brief research description, and three letters of reference to: **Dr. Richard Kolodner, Search Committee Chairman, Division of Cellular and Molecular Biology, Dana-Farber Cancer Institute, Mayer Building, Room 849, 44 Binney Street, Boston, MA 02115.**

The Dana-Farber Cancer Institute and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Women and minority candidates are particularly encouraged to apply.

DEPARTMENT OF PHARMACOLOGY THE UNIVERSITY OF ALABAMA AT BIRMINGHAM (UAB) ASSISTANT PROFESSOR PROTEIN CRYSTALLOGRAPHY

Applications are invited for this tenure-track position, available in July 1992. Priority will be given to candidates with research programs focused on receptors and receptor-binding proteins. The successful candidate is expected to develop a vigorous research program in structural biology, and to participate in UAB's graduate program in pharmaceutical design. He/she will hold a parallel appointment in the Center for Macromolecular Crystallography and in the Comprehensive Cancer Center. Salary for this 12-month appointment will be commensurate with the candidate's qualifications.

Applicants should submit curriculum vitae, a list of publications, a brief statement regarding future research plans, and at least three references to: **Charles E. Bugg, Center for Macromolecular Crystallography, University of Alabama at Birmingham, Box 79THT—UAB Station, Birmingham, AL 35294-0005.** *Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR for overall direction and supervision of a nucleic acids core facility (sequencing and synthesis) in medical research organization; independent research in muscular dystrophy, purine metabolism, human genome, genetic mutation. Must seek and obtain independent research funding and collaborate with other researchers. Must have Ph.D. in biochemistry, molecular biology or genetics; 3 years of postdoctoral experience in molecular and human biology/genetics and independent research in purine metabolism, DNA synthesis and sequencing; ten publications in peer-reviewed journals in the field of purine metabolism and acquired and inherited diseases. Salary: \$65,000 per year; 40 hours per week. Apply at the **Texas Employment Commission, Houston, Texas** or send résumé to the **Texas Employment Commission, TEC Building, Austin, TX 78778, J.O. #6687304.** *Ad paid by an Equal Employment Opportunity Employer.*

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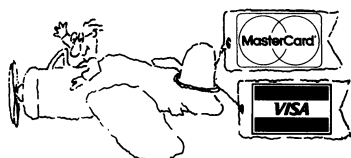
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ASSISTANT PROFESSOR DEVELOPMENTAL NEUROBIOLOGIST

Applications are invited for a tenure-track appointment at the assistant professor level in the Department of Anatomy of Thomas Jefferson University. TJU, located in center city Philadelphia, is an academic health center with rapidly expanding programs in cellular and molecular biology. Candidates are expected to have postdoctoral experience and will be expected to establish an independent research program which applies cellular and molecular biological techniques to the mechanistic analysis of nervous system development. Teaching responsibilities will be as a member of the medical neuroanatomy faculty team and in Ph.D. training programs in developmental biology. Candidates should send their curriculum vitae, a statement of present and future research interests, and three letters of recommendation to: **Gerald B. Grunwald, Ph.D., Search Committee Chairman, Department of Anatomy, Thomas Jefferson University, 1020 Locust Street, Philadelphia, PA 19107.** *Thomas Jefferson University is an Affirmative Action/Equal Opportunity Employer committed to a smoke-free environment.*

ASSISTANT PROFESSOR. The University of Georgia Warnell School of Forest Resources seeks applicants for a 12-month tenure-track position in silviculture and applied forest ecology. Responsibilities are divided between research (75%) and teaching (25%). Desired areas of expertise include, but are not necessarily limited to, process modeling, stand dynamics or vegetation management. The successful applicant will be expected to develop an active research and graduate program. The candidate will also be responsible for teaching an undergraduate course in silviculture and development of a graduate course in his or her area of expertise. A Ph.D. in forest resources, ecology or related field is required. Strong preference will be given to candidates with at least one degree in forest resources. The position will be available 1 July 1992. Salary will be commensurate with training and experience. Applications received by 1 April 1992 will receive full consideration. Submit résumé and names of at least three references to: **Robert O. Teskey, Chairperson, Silviculture-Ecology Search Committee, Warnell School of Forest Resources, University of Georgia, Athens, GA 30602. Telephone: 404-542-2686.** *The University of Georgia is an Equal Opportunity/Affirmative Action Institution.*

ASSISTANT PROFESSORS MICROBIOLOGIST MOLECULAR GENETICIST

Two tenure-track faculty positions are anticipated for August 1992. The Life Sciences Department has active doctoral-granting programs in cell-molecular biology, microbiology-immunology, physiology, and ecology. Microbiologist: Research in microbiology, immunology, mycology, parasitology, or virology. Molecular geneticist: Research should involve eukaryotic organisms. For both positions, Ph.D., postdoctoral experience and demonstrated commitment to excellence in teaching required. Candidates are expected to maintain active and fundable research programs. Teaching includes an introductory and an advanced course in area of specialty. Send application letter, curriculum vitae, and three reference letters to: **William J. Brett, Chairperson, Department of Life Sciences, Indiana State University, Terre Haute, IN 47809. Telephone: 812-237-2405.** Application review begins 14 March 1992, continuing until positions are filled. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSORS. The Department of Physiology and Cell Biology invites applications for two assistant professor positions (tenure track) for 1 July 1992. Applicants must have 2 to 3 years of postdoctoral experience; ability to develop an independent research program; and an interest in teaching M.D. and/or Ph.D. students. Current faculty research includes: phagocytic and endothelial cell biology, tissue injury and repair, cellular signaling, extracellular matrix assembly and degradation, adhesive glycoproteins and cell function, lung vascular permeability, peripheral microvascular physiology as well as pathophysiology of shock, sepsis and intravascular coagulation. Submit curriculum vitae to: **Dr. Thomas Saba, Department of Physiology and Cell Biology (A-134), Albany Medical College, Albany, NY 12208.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

AUBURN UNIVERSITY FACULTY POSITION CELL/DEVELOPMENTAL BIOLOGIST

Applications are invited for a 9-month tenure-track position at the **ASSISTANT PROFESSOR** level in the Department of Zoology and Wildlife Science at Auburn University, effective 16 September 1992. Applicants must have a Ph.D. in a biological field with broad training in cellular biology and must provide evidence of potential for teaching excellence. Postdoctoral experience is preferred. Applicant must have demonstrated potential to develop a competitive research program; preference will be given to those working in an area which is compatible with current departmental strengths using invertebrates and protozoans in embryogenesis, cellular energetics, endosymbiosis or cellular ion regulation. The position entails teaching in the undergraduate zoology program, development of graduate coursework in area of specialty, direction of graduate students, development of a vigorous, externally funded program of research, and participating in position-related service activities. Salary will be commensurate with experience. Applicants should submit a letter outlining research/teaching interests and goals, curriculum vitae which includes education and experience, list of publications (with selected reprints), academic transcripts, evidence of potential for teaching excellence and other pertinent information. Applicants should also arrange for three to five letters of reference. All application materials and letters of reference should be forwarded to: **Dr. John F. Pritchett, Head, Department of Zoology and Wildlife Science, Auburn University, Auburn, AL 36849-5414. Telephone: 205-844-4850; FAX: 205-844-9243.** Closing date: 30 March 1992 or until an acceptable candidate is identified. *Members of minority groups and women are encouraged to apply. Auburn University is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR OF PHARMACOLOGY/TOXICOLOGY. Ohio Northern University is advertising a 9-month, tenure-track position. The individual will be responsible for teaching toxicology and some areas of pharmacology to undergraduate pharmacy students. Individual or collaborative research appropriate to the research mission of the college is also expected. A Ph.D. in pharmacology and/or toxicology is required. An undergraduate degree in pharmacy is desirable, but not required. The application and selection process begins immediately. Application and inquiries should be sent to: **Thomas P. Faulkner, Ph.D., Professor and Chair, Department of Pharmacology and Biomedical Sciences, College of Pharmacy, Ohio Northern University, Ada, OH 45810.** *Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

NEUROCHEMIST/NEUROPHARMACOLOGIST with behavioral interests; **ASSISTANT PROFESSOR** (nontenure track) position. To join research team investigating an olfactory dysfunction including that due to Alzheimer's and Parkinson's disease. Immunohistochemistry and radioimmunoassay experience useful. Contact: **Dr. Richard L. Doty, Director, Smell and Taste Center, Department of Otorhinolaryngology: Head and Neck Surgery, School of Medicine, University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104.** *The University of Pennsylvania Medical Center is an Equal Opportunity/Affirmative Action Employer.*

BIOLOGIST-INSTRUCTOR

The Department of Biology of Rollins College invites applications for a 1-year sabbatical replacement position as a **VISITING ASSISTANT PROFESSOR**, beginning fall 1992, to teach general biology courses for majors and nonmajors and one upper division course in area of interest to the candidate. Required: Ph.D. (or ABD with degree nearing completion), potential for excellence in teaching, and a genuine interest in educating undergraduates. The department has well-equipped general laboratories, specialized molecular/cellular biology facilities and a modern greenhouse. The setting of the college, on a chain of lakes, is conducive to a variety of field experiences. Send statement of interest, curriculum vitae, academic transcripts and three letters of recommendation to: **Dr. Steve Klemann, Chair, Department of Biology, Rollins College, Winter Park, FL 32789-4497.** Selection will begin 15 February 1992. *Rollins assures Equal Employment Opportunity through an effective and continuing Affirmative Action program.*

A personal invitation from Dr. Gideon Goldstein.



Gideon Goldstein, M.D., Ph.D., Chief Executive Officer

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Interested candidates should send a resume and names and addresses of three references **by April 1 to: Director of Administration, 4 Corporate Drive, Andover, MA 01810.** An Equal Opportunity Employer.



EISAI RESEARCH INSTITUTE

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SECTION HEAD PLANT MOLECULAR GENETICS

We are seeking applicants with the necessary qualifications to initiate a new research section within the Plant Biology Division. Candidates should have a minimum of two years postdoctoral experience in molecular genetics and proven ability in applying their expertise to genetically tractable systems such as (but not limited to) *Arabidopsis*. The successful candidate will be expected to develop a vigorous research program utilizing genetic methods for elucidating the molecular mechanisms underlying plant responses to biotic and abiotic stress.

The position is one of four Section Head positions in the Plant Biology Division. The successful applicant would be expected to interact with the other groups which work on the biochemistry and molecular biology of plant defense response genes, molecular virology, and crop protection through gene transfer technology. The Foundation offers a unique environment for creative and productive research with stable funding and excellent prospects for achievement-based development of the Plant Genetics Section. Technical and postdoctoral positions within the Section will be advertised on appointment of the Section Head.

To apply, submit curriculum vitae, statement of research interests and names of three referees to:

Dr. Richard A. Dixon
Director, Plant Biology Division
The Samuel Roberts Noble Foundation, Inc.
P.O. Box 2180
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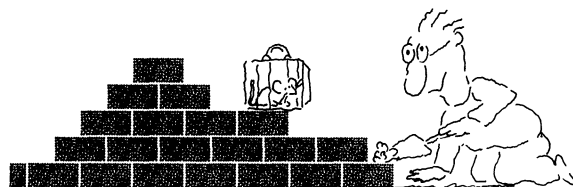
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In association with the expansion of the University over the next few years, the Faculty invites applications for teaching posts from suitably-qualified candidates who are able to contribute to postgraduate as well as undergraduate teaching in the Faculty including a number of study programmes specified below. Applicants should have an appropriate higher degree, normally a PhD, and relevant teaching and research experience. The posts are tenable from 1 September 1992.

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Departments of Botany and Zoology (Ref. RF/TA/Sci/1)

Special preference will be given to persons with expertise in the following fields of the Programmes concerned in the BSc curriculum: Animal and Plant Biotechnology Programme (applied immunology; biotechnology engineering; cell culture/processing; cell immunity; crop biotechnology; industrial microbiology; post-harvest technology; protein engineering. Experience in the biotechnology industries would be welcome.) Environmental Science Programme (animal behaviour; ecology of terrestrial vertebrates; eco-physiology; fisheries biology/aquaculture; plant ecology). Food and Nutritional Science Programme (cereal science; diet and disease; food additives; food pests; food preservation; food processing/analysis; pharmacognosy; plant breeding; toxicology). General Biology Programme (developmental biology; entomology/pest control; plant molecular genetics; plant systematics). Applicants should specify clearly the programme of their interest and the area(s) of their expertise.

LECTURESHIPS

The Radioisotope Unit (Ref. RF/TA/Sci/5)

Applicants should have appropriate experience in areas related to environmental radioactivity or radiobiology. The appointee will be required to contribute to the Unit's radiological protection service.

Annual salaries (superannuable) are on the following scales:

Reader (R)	HK\$501,120–665,700 (9 points) (US\$64,861–US\$86,164)
Senior Lecturer (SL)	HK\$480,360–645,300 (9 points) (US\$62,175–US\$83,522)
Lecturer (L)	HK\$309,120–516,480 (11 points) (US\$40,010–US\$66,850)

US Dollar equivalents as at 14 January 1992. Starting salaries depend on qualifications and experience. Salaries tax is currently 15% of gross income.

Appointments are normally made on permanent, superannuable terms, subject to a period of probation of not less than 33 months. Staff benefits include generous leave provisions, medical benefits and children's education allowances; housing assistance is also provided in most cases at a charge of 7.5% of salary.

Further particulars and application forms may be obtained from the Appointments Officer, Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK; or from the Secretary Faculty of Science, University of Hong Kong, Pokfulam Road, Hong Kong (fax (852) 8584620). Please quote title of post/department/programme and reference number in all correspondence.

The closing date for all posts is: **31 March 1992.**

The recent opening of the new Glaxo Inc. Girolami Research Institute, located in Research Triangle Park, NC, represents Glaxo's continued commitment to the discovery and development of drugs for unmet patient needs. We invite you to experience the challenges and accomplishments a future with us holds for you. The following opportunities are now available.

ENDOTHELIAL CELL BIOLOGIST

We seek an experienced Endothelial Cell Biologist to lead a research group focusing on neovascularization and tumor angiogenesis.

Emphasis is on an interdisciplinary approach to the regulation of endothelial cell function using novel molecular, biochemical and cell biological approaches to define endothelial specific pathways involved in tumor angiogenesis. Active collaboration between the research team and other teams both inside and outside the company is required.

Qualifications must include a Ph.D. or M.D., a minimum of 4 years relevant post-doctoral experience, and a proven record of achievement. Expertise in the areas of immunocytochemistry, microscopy and extracellular matrix biochemistry is desirable.

Please refer to Job # 9125B118-SC on all resumes.

RESEARCH INVESTIGATOR

As a key member of our Pharmacology Department, the selected individual will be responsible for designing, conducting and supervising in vivo studies of bone physiology, pathophysiology and pharmacology within our osteoporosis drug discovery research program.

Background must include a degree in a health-related or scientific discipline. Experience with bone histomorphometry, bone densitometry and biochemical markers of bone formation and resorption is required.

Please refer to Job # 9116B205-SC on all resumes.

POST-DOCTORAL SCIENTIST

Bioanalytical Separations

This position will involve research into novel, high-resolution separation techniques such as two-dimensional chromatography and capillary isoelectric focusing. Individual will apply these techniques to the characterization of complex mixtures of biological macromolecules. Publication of results is strongly encouraged.

The successful candidate will have a Ph.D. in Chemistry or Biochemistry with a strong background in bioanalytical separations and instrumentation. Publication of results is strongly encouraged.

Please refer to Job #9141-R-SC on all resumes.

Join Glaxo and enjoy excellent salaries, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction. Equally appealing is our world famous scientific, industrial and academic community in Research Triangle Park, NC. Send your resume, INDICATING THE CORRESPONDING JOB # and salary history, to: Human Resources Department, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/H/V.

Glaxo Inc.

Scientist

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has immediate openings for Scientists in the Pharmacokinetics/Drug Metabolism Department at the Research Facility in Ann Arbor, Michigan.

The positions are responsible for the design and conduct of preclinical and clinical pharmacokinetics/drug metabolism studies, analytical methods development for drugs and metabolites in biological fluids, sample assay, pharmacokinetics and statistical data analysis, and report summarization. An excellent understanding of pharmacokinetics principles is needed for study design, data interpretation and preparation of research reports and manuscripts.

The positions require:

- Ph.D./Pharm.D. in Pharmacy, Pharmaceuticals or Medicinal Chemistry, with an emphasis in Pharmacokinetics and Metabolism
- 0-2 years' post-graduate experience
- Demonstrated competency in HPLC, GC, TLC or radiometric analytical methods
- Good verbal and written communication skills
- Good interpersonal skills
- Demonstrated ability to perform advanced pharmacokinetics/statistical analyses

Experience and interest in novel drug delivery are desirable. Interested, qualified applicants should send their resume and salary requirements in confidence to **Box JDM-91170, Human Resources, PARKE-DAVIS Pharmaceutical Research Division, 2800 Plymouth Road, Ann Arbor, MI 48105.** "Smoke-Free Work Environment"

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PARKE-DAVIS

A DIVISION OF **WARNER-LAMBERT**

California Institute of Technology

The James Irvine Foundation
Minority Postdoctoral Fellowship

In accordance with the California Institute of Technology's policies to promote diversity among scientists, we announce a grant award from The James Irvine Foundation to support postdoctoral fellowships for American citizens who are members of minority groups. Combined with support from Caltech, this grant provides funding for two fellowships each year, each with an annual stipend of \$37,000, and additional research and travel funds. The duration of this appointment will be for no more than three years, beginning with 1992-93 academic year. Fellows are eligible to participate in Caltech's health and dental program.

The James Irvine Foundation Minority Postdoctoral Fellowship was established to help increase the representation of minorities in the sciences and engineering. It is available to those who have received their doctorate in the sciences or engineering and who are United States citizens and are members of the following groups: Native American, African American, Hispanic, Native Alaskan, or Native Pacific Islander, and who otherwise qualify for Caltech's financial aid program. Irvine Fellows will be selected in accordance with equal opportunity requirements.

Applicants should include a letter outlining desired field of research and a curriculum vitae. Three letters of reference should be submitted directly. All correspondence should be addressed to:

James Irvine Fellowship Search Committee
California Institute of Technology
Mail Code 210-31
Pasadena, California 91125

**Completed applications with references should arrive
at Caltech before May 15, 1992.**

Fellowship candidates will automatically be considered for other available postdoctoral positions at Caltech in their fields of interest.

POSITIONS OPEN

ASSISTANT PROFESSORSHIPS PLANT BIOLOGY HARVARD UNIVERSITY

The Department of Organismic and Evolutionary Biology of Harvard University seeks applications and nominations for two assistant professor positions in the following areas: plant molecular systematics, plant molecular genetics, and plant molecular development. The department is particularly interested in candidates who have interests in broad questions of phylogeny, evolution, or ecology. The appointees will be expected to teach at the undergraduate and graduate levels.

Applications should include curriculum vitae, statement of research and teaching interests, and three letters of recommendation and should be sent by 1 March 1992 to: **Plant Searches, Department of Organismic and Evolutionary Biology, 26 Oxford Street, Cambridge, MA 02138.**

Harvard University is an Equal Opportunity/Affirmative Action Employer. We especially invite women and underrepresented minorities to apply.

ASSISTANT PROFESSOR, Department of Urology, Northwestern University Medical School, faculty position in a basic science discipline starting 1 August 1992. Candidate should have Ph.D. and at least 2 years of postdoctoral experience. Incumbent is expected to study nonandrogenic role of testis in prostatic growth using molecular biology techniques. Applicants should send résumé and names of three references by 1 March 1992 to: **Dr. Chung Lee, Department of Urology, Northwestern University Medical School, 303 East Chicago Avenue, Tarry 11-715, Chicago, IL 60611-3008.** *Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

ASSISTANT PROFESSOR OF TOXICOLOGY/ASSISTANT EXTENSION TOXICOLOGIST, an 11-month tenure-track appointment, 85% extension and 15% teaching, available 1 July 1992. Ph.D. or equivalent with training and research in toxicology and a strong background in biochemistry and biology are required. All areas of extension toxicology will be considered but we are particularly interested in the effects of agrochemicals in the following areas: worker safety and public health; molecular epidemiology; ecological toxicology. The person will be the interface between the University of California system and clientele particularly in southern California. Teaching responsibilities will be an undergraduate course in ecological effects of environmental toxicants or the impact of environmental toxicants on human health. Supervision of graduate students in the Environmental Toxicology Graduate Program is encouraged. The academic appointment will be in the Department of Entomology which administers the program. Send curriculum vitae, transcripts of graduate work, reprints, statement of research interests, and names and addresses of five referees to: **Dr. L. K. Gaston, Environmental Toxicology Program-WHE, University of California, Riverside, CA 92521. Telephone: 714-787-5427; FAX: 714-787-3087.** Applications will be accepted until 1 April 1992. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR WILDLIFE/POPULATION DYNAMICS. Tenure-track position in the Wildlife Department. Ph.D. required at time of appointment. University teaching experience preferred. Candidates must have expertise in population dynamics of mammals and birds as well as the appropriate background to teach such courses as wildlife population ecology, design and analysis of wildlife studies (applied statistics, especially ANOVA), ornithology, and wildlife techniques. Candidates must demonstrate a background in wildlife management, an understanding of the dynamics of exploited populations, and research experience in avian population dynamics. Candidates with professional wildlife experience and a strong background in applied mathematics and statistics may receive preference. Submit curriculum vitae (including reprints), transcripts of academic work, and three letters of reference to: **Dr. Richard T. Golightly, Chair, Department of Wildlife, Humboldt State University, Arcata, CA 95521. Telephone: 707-826-3953.** Closing date is 15 March 1992. *Humboldt State University is an Equal Opportunity/Affirmative Action/Title IX Employer.*

POSITIONS OPEN

VETERINARY PHARMACOLOGIST/ PHYSIOLOGIST

A faculty position is available in the Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Texas A&M University. This **ASSISTANT PROFESSOR** level position is a tenure-track appointment. This position is open to individuals with a D.V.M. and/or Ph.D. or equivalent degrees. Clinical experience is desirable. Salary will be commensurate with qualifications and experience.

The Department of Veterinary Physiology and Pharmacology includes over 20 faculty and other professionals and has two primary missions, teaching and research. Within the professional curriculum this department is responsible for physiology, pharmacology, and toxicology. The successful candidate will have primary responsibilities in teaching pharmacology/physiology within the undergraduate and professional curricula. Independent or collaborative research is required for promotion and tenure. Within the department, research interest is largely focused in cardiovascular physiology, veterinary and environmental toxicology, reproductive physiology, and clinical pharmacology.

For maximum consideration, applicants should submit a letter of intent, curriculum vitae, and the names of three references by 20 March 1992 to: **Dr. David Hood, Department of Veterinary Physiology and Pharmacology, Texas A&M University, College Station, TX 77843-4466.**

Texas A&M University is an Equal Opportunity/Affirmative Action Employer/Educator.

ASSISTANT RESEARCH SCIENTIST (ASSISTANT PROFESSOR, NONTENURE TRACK)/ POSTDOCTORAL FELLOWS.

We are looking for intellectually aggressive and curious individuals to join a small group of highly motivated scientists to study invasive/proteolytic mechanisms used by normal and neoplastic cells during transendothelial cell migration [e.g., *J. Clin. Invest.* **83**, 122 (1989); *N. Engl. J. Med.* **320**, 365 (1989); *Science* **249**, 178 (1990); *Science* **254**, 99 (1991)]. Background in endothelial cell-extracellular matrix biology/molecular biology or cell motility preferred. *Applicants for assistance research scientists must be U.S. citizen or permanent resident of the United States.* Submit curriculum vitae and two letters of reference to: **Dr. Stephen J. Weiss, Upjohn Professor of Medicine and Oncology, University of Michigan, C570 MSRB II, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0668.**

PHYSICIAN FOR CLINICAL DRUG TRIAL CONSORTIUM. Newly established Alzheimer Disease Clinical Trials Study Unit is seeking a physician with background and experience in clinical trials and biostatistics to work on the development of psychometric test instruments and clinical drug trials for patients with Alzheimer's disease. Individuals trained in neurology, psychiatry, internal medicine and family medicine will be considered. Recruitment will be to the clinical or in-residence series at the **ASSISTANT OR ASSOCIATE PROFESSOR** level as determined by background and experience. The position is grant-funded and through the Department of Neurosciences at the University of California at San Diego (UCSD). Send letter of interest and curriculum vitae to: **Dr. Leon Thal, Neurology Service (127), VA Medical Center, 3350 La Jolla Village Drive, San Diego, CA 92161.** Applications received by 31 March 1992 will be considered. *UCSD is an Equal Opportunity/Affirmative Action Employer.*

CELLULAR/MOLECULAR CARDIOVASCULAR SCIENTISTS. The Department of Physiology and Pharmacology at Bowman Gray School of Medicine has two tenure-track positions available at the **ASSISTANT OR ASSOCIATE PROFESSOR** level. Individuals with expertise in cellular/molecular approaches to investigation of vascular biology or CNS regulation of the circulation are encouraged to apply. Rank, salary and space will be commensurate with qualifications. Send curriculum vitae and names and addresses of three references to: **Dr. David Busija, Search Committee, Department of Physiology and Pharmacology, Bowman Gray School of Medicine, Wake Forest University, Medical Center Boulevard, Winston-Salem, NC 27187-1083.** Respond before 1 March 1992. *Affirmative Action/Equal Opportunity Employer.*

The future is taking shape at CBM.

At Creative BioMolecules, we are developing a new class of products which will repair and regenerate damaged human tissue. Our scientific breakthroughs will improve the quality of life for people afflicted with hard and soft tissue ailments. The opportunities created within both our science and business areas match the potential of our products. Now, see for yourself how our innovative team approach allows our people to see how their work effects the final outcome.

Openings exist in the following areas at all levels:

- Director ■ Scientist
- Research Associate

Cell, Developmental and Molecular Biology

Opportunities to work on growth/differentiation factors, gene expression and protein engineering and to participate in the development of *in vitro* and *in vivo* models for evaluation efficacy of novel growth/differentiation factors, morphogens and cytokines. Experience desired in PCR, nucleic acid hybridization, DNA sequencing, gene cloning, restriction analysis and plasmid construction. Familiarity required *in situ* hybridization, mRNA and Southern analysis, library screen and cloning, cell culture, gene transfection and amplification, immunohisto-chemistry, histo-morphometric analysis, matrix-cell interactions, receptor-ligand interactions and cellular and immunoassays. Department SB.

Protein Chemistry

Challenges exist in the isolation and characterization of biologically active proteins. Successful candidates will develop purification processes for naturally sourced and recombinant protein therapeutics from project initiation through the start of clinical manufacturing. They will also perform structural/functional analysis of recombinant therapeutic proteins under development for assessing functionally important domains. Familiarity required in analytical methods including HPLC, peptide mapping and chemical modification of protein is desired. Department SPC.

Analytical Protein Chemistry

Successful candidates will assist in the characterization of protein products through the use of state-of-the-art techniques and instrumentation from micro-scale elucidation of the primary and secondary structures of proteins. The senior candidates are expected to be familiar with gas phase protein/peptide sequencing, microbore HPLC separations of proteins and peptide, amino acid analysis, etc. Department SAC.

Please send your resume, indicating appropriate department, to: **Ron Bloch, Human Resources, Creative BioMolecules, 35 South Street, Hopkinton, MA 01748.** Fax 508-435-6951. An equal opportunity employer. Principals only.

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Science that heals.

POSITIONS OPEN

VISITING ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGICAL SCIENCES THE UNIVERSITY OF TEXAS AT EL PASO

The Department of Biological Sciences at The University of Texas at El Paso is seeking to fill the position of Visiting Assistant Professor beginning September 1992. This appointment will be for 2 years depending on availability of funds with the possibility of renewal for a third year. The individual selected for this position will be expected to teach in the Microbiology and Introductory Biology Programs. The individual will also be expected to participate in one or more of the ongoing research programs in the Minority Biomedical Research Support (MBRS) Program. A list of research opportunities will be provided upon request. Preference will be given to individuals whose background and training is in molecular biology/recombinant DNA technology. Qualified applicants should forward their curriculum vitae and names of three references to: **Dr. Pablo Arenaz, Department of Biological Sciences, The University of Texas at El Paso, El Paso, TX 79968-0519.** The university is an Equal Opportunity/Affirmative Action Employer.

EAST TENNESSEE STATE UNIVERSITY

ASSISTANT/ASSOCIATE PROFESSOR in Department of Microbiology for Ph.D. molecular biologist. Research experience and applications in regulation of gene expression required. Department strengths: cytokines, regulation of cell function, regulation of vital genes and microbial pathogenesis. Applicants must apply molecular biology techniques to one or more of these areas, must establish/maintain independent and collaborative research programs, and teach medical and graduate students. Nontenure-track position. Competitive salary, start-up funds, location in geographically desirable area. Send curriculum vitae, statement of research interests, and three reference letters to: **Dwight W. Lambe, Jr., Ph.D., Chairman, Department of Microbiology, James H. Quillen College of Medicine, East Tennessee State University (ETSU), Box 70,579, Johnson City, TN 37614-5079.** ETSU is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Biochemistry at the Uniformed Services University of the Health Sciences (USUHS) invites applications for two 12-month salaried tenure-track positions available in 1992. Outstanding candidates in all areas of biochemistry and molecular biology are encouraged to apply. Candidates at the assistant professor level must have postdoctoral experience and will be expected to develop a vigorous basic research program. Applicants for associate professor should have an ongoing extramurally funded research program, and have teaching experience. Faculty will participate in the training of medical and graduate students. Please send curriculum vitae, reprints of two to three publications, a statement of future research plans, and at least three letters of recommendation by 5 March 1992 to: **Department of Biochemistry Search Committee, c/o Uniformed Services University of the Health Sciences, Civilian Personnel Office (LD:BIOCHEM), 4301 Jones Bridge Road, Bethesda, MD 20814.** USUHS is an Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR PULMONARY CELLULAR MECHANICS

The Department of Anesthesia at Northwestern University Medical School is seeking to fill a tenure-track appointment in the area of pulmonary cellular response to mechanical stimuli and injury. The successful candidate should have a strong background in cell biology and an interest in collaborating with pulmonary biomechanics researchers. Both physician-scientists and Ph.D.-trained applicants will be considered. Send curriculum vitae, names of three references and a letter outlining research interests and plans to: **James B. Grotberg, Ph.D., M.D., Department of Anesthesia, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.**

Northwestern University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR RADIATION ONCOLOGY

The Department of Radiation Oncology and the Cancer Center at the University of Alabama at Birmingham is currently recruiting a faculty member in either radiation biology or tumor biology. The rank of either assistant professor, associate professor or research associate professor, the tenure status and the salary will be determined by the level of expertise and the years of experience. It is anticipated that the successful candidate will have an interest in tumor vascularity, radiolabeled antibody tumor therapy, bone marrow protection with cytokines or targeted drug delivery. Candidates should submit complete curriculum vitae to: **Merle M. Salter, M.D., Professor and Chairman, Department of Radiation Oncology, University of Alabama at Birmingham, 619 South 19th Street, Birmingham, AL 35233.** An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology of Louisiana State University Medical Center (LSUMC) in Shreveport invites applications for tenure-track faculty positions at the rank of **ASSISTANT, ASSOCIATE OR FULL PROFESSOR.** The department and other basic science departments are undergoing a major expansion in both faculty size and research space. A ten-story biomedical research institute is currently under construction adjacent to the medical school. Successful applicants should have Ph.D. or M.D. degrees, postdoctoral research experience, and a commitment to excellence in both teaching and research. The department will assist new faculty appointees in developing a vigorous independent research program with technical resources and start-up funds. Salaries are competitive and commensurate with qualifications. Applicants should ask three individuals to write letters of recommendation and should send curriculum vitae and a brief statement of current and future interests to:

**Robert E. Rhoads, Ph.D., Professor and Head
Department of Biochemistry and Molecular Biology
LSU Medical Center, P.O. Box 33932
Shreveport, LA 71130-3932**

LSUMC is an Equal Opportunity/Affirmative Action Employer.

SALEM-TEIKYO UNIVERSITY FACULTY POSITION MOLECULAR GENETICS

The Department of Natural Science and Mathematics has two positions open for highly qualified Ph.D.'s in molecular genetics, cell biology or biochemistry. These are two initial positions in a newly developed undergraduate major in molecular biology/biotechnology. One position at the **FULL-PROFESSOR** level is for a senior scientist interested in teaching and developing an undergraduate research program. The second position, **ASSISTANT OR ASSOCIATE PROFESSOR** level depending on experience, is for a Ph.D. with postgraduate experience. Teaching will include molecular genetics, cell biology, biochemistry, immunology and applied biotechnology. The candidate is encouraged to develop his/her own research program. Research facility and research support are available.

Send curriculum vitae with three references to: **Chairman, Search Committee, Salem-Teikyo University, P.O. Box 500, Salem, WV 26426.**

UNIVERSITY OF CAMBRIDGE UNIVERSITY LECTURER (VIROLOGY) IN THE DEPARTMENT OF PATHOLOGY

University lecturer to take up appointment on 1 October 1992 or as soon as possible thereafter. The successful candidate will join the Division of Virology and will be expected to take part in teaching of basic virology to science students and preclinical medical and veterinary students and to engage in research on some aspect of the replication or pathogenesis of viruses.

Stipend: £16,432 to £25,343.

Further information and application form from: **The Secretary, Appointments Committee, 19 Trumpington Street, Cambridge CB2 1QA, United Kingdom, Telephone: 0223 334999. FAX: 0223 332355.** Closing date: 31 March 1992. The university follows an Equal Opportunity policy and has a policy on arrangements for part-time work.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR, DEVELOPMENTAL/MOLECULAR BIOLOGY. The Department of Biological Sciences at The Wichita State University is actively recruiting gifted individuals with demonstrated research and teaching skills in molecular biology for two tenure eligible positions at the assistant/associate professor level. A research emphasis in developmental biology or genetics/immunology is preferable. Both positions require significant postdoctoral training, a record of productive research, and the ability to interact collegially. Appointment at the associate level requires a demonstrated record of funded research activity. Salary competitive with start-up funds available. Deadline for applications is 15 March 1992 or the first of the month until the positions are filled. Submit curriculum vitae, summary of current and future research, and names of three references to: **Chairperson, Search Committee, Department of Biological Sciences, Campus Box 26, The Wichita State University (WSU), Wichita, KS 67208-1595.** WSU is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF PATHOGENIC MICROBIOLOGY. The Department of Veterinary and Microbiological Sciences at North Dakota State University invites applications for a tenure-track faculty position in pathogenic microbiology at the assistant or associate professor level. The successful candidate will be expected to teach an undergraduate course in pathogenic microbiology, develop a graduate-level mechanisms of pathogenesis course, supervise graduate students, and establish an active, independent research program using contemporary molecular approaches to microbial pathogenesis. Candidates must have a Ph.D. degree in microbiology or related field, research experience in molecular pathogenesis of microorganisms, postdoctoral research experience, and evidence of recent research accomplishments. Teaching experience, research on microbial pathogens important to animal health, and evidence of grantsmanship ability are preferred. Review of applications will begin on 15 March 1992 and will continue until the position is filled. Send curriculum vitae, summary of research interests, and the names, addresses and telephone numbers of three references to: **Eugene S. Berry, Ph.D., Chair, Search Committee, Department of Veterinary and Microbiological Sciences, North Dakota State University, Fargo, ND 58105.** North Dakota State University is an Equal Opportunity Institution.

Mississippi River Ecologist, **ASSISTANT, ASSOCIATE OR FULL PROFESSOR.** The Biology Department at Winona State University is seeking a "big-picture" biologist for a tenure-track position in the area of Mississippi River Ecology. Responsibilities will be to develop a course in Mississippi River Ecology and to teach courses such as environmental biology, conservation and other courses consistent with the candidate's training. This position requires previous research experience on a major river system and the development of an ongoing, field research program involving undergraduate students on the Mississippi River. Collaboration with communities, organizations, and agencies concerned with the river ecosystem is expected. Salary is dependent on qualifications and experience. Applicants should send (1) a letter of application stating teaching and research interests, (2) curriculum vitae, and (3) a list of four references (names, addresses and telephone numbers) from whom letters of recommendation have been requested to: **Mississippi River Ecologist Search, Affirmative Action Office, Winona State University, P.O. Box 5838, Winona, MN 55987-5838.** Consideration of applications will begin about 1 March 1992. Position may involve off-campus teaching. Affirmative Action/Equal Employment Opportunity. Women, minorities and disabled individuals are encouraged to apply. Winona State University is an Affirmative Action/Title IX/Equal Opportunity University.

CHAIR, PEDIATRIC DENTISTRY. Full-time position available 1 September 1992. D.M.D./D.D.S. degree required together with Board eligibility or certification, Ph.D. preferred. Candidate should demonstrate a strong commitment to research and scholarly achievement. Salary commensurate with qualifications/experience. Equal Opportunity/Affirmative Action Employer. Send curriculum vitae and supporting data to: **Dr. Dan Nathanson, BUSGD, 609 Albany Street, 6th floor, Boston, MA 02118.**

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Virologist, HIV Will participate in ongoing research and discovery programs. Ph.D. in Biochemistry, Molecular Biology or related discipline and at least 2 years' Post-Doctoral experience required, along with P3 lab management and research experience with the HIV virus. Excellent oral and written communication skills and supervisory potential also required. **Code: MH-207-S**

Virologist, Influenza Will participate in ongoing research and discovery programs. Ph.D. in Biochemistry, Molecular Biology or related discipline and a minimum 2 years' Post-Doctoral experience required, along with research experience with the Influenza virus. Excellent oral and written communication skills and supervisory potential required. **Code: MH-206-S**

Scientist, Molecular Biology Will participate in the assaying of inhibitor compounds for HIV. BS or MS degree in Biological Sciences or equivalent required. Must also have experience in laboratory science/techniques and research in P3 containment conditions. Strong aptitude for learning new techniques and meticulous laboratory practices a must. **Code: MH-208-S**

Post-Doc, Molecular Biology Strong graduate research background in molecular biology, virology, immunology or genetics. **Code: MH-PD-S**

Located in Ridgefield, CT, we offer the beauty of country living with the hustle and bustle of New York City only an hour away. We also offer excellent salaries, one of the best relocation programs in the industry for qualified positions and a full range of research and development capabilities. Please specify the appropriate job code from above and send your resume in confidence to: Dept. (job code #), Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877. *As a progressive healthcare company, we have a nonsmoking environment.*

Ph.D. Environmental Toxicologist

The Procter & Gamble Company has an immediate opening for a Ph.D. Environmental Toxicologist in its Environmental Safety Department at the Ivorydale Technical Center, Cincinnati, Ohio.

The position offers a unique combination of environmental research, project management, and risk assessment opportunities. The opening requires an individual with the ability to develop, direct, and implement state-of-the-art research programs to evaluate the potential effects of consumer product ingredients in aquatic and terrestrial environments. These compounds may reach the environment as components of sewage effluents and sludges and as components of municipal solid waste compost. Experience in terrestrial toxicity, i.e., effects on soil properties, plants, or free living organisms, would be an asset.

The successful applicant will work on a team with other environmental toxicologists, microbiologists, chemists, and engineers. Must be highly motivated with demonstrated research, leadership and communication skills.

Procter & Gamble is a world leader in the research, development, and manufacture of consumer products. Sales last year were \$27 billion, and R&D budget was \$786 million. We offer competitive salaries, a benefits package in the top 5% of U.S. firms, and excellent opportunities for personal and professional growth. Applicants must be presently authorized to work in the U.S. on a full-time basis.

Send resume, a list of publications, and a statement of career goals to:

Dr. N. G. Howell, Manager
Ph.D. Recruiting
Environmental Toxicology Position, Dept. DV
The Procter & Gamble Company
Miami Valley Laboratories
P.O. Box 398707
Cincinnati, Ohio 45239-8707

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Procter & Gamble

POSITIONS OPEN

BIOCHEMISTRY/FACULTY POSITION TEMPLE UNIVERSITY SCHOOL OF MEDICINE

Applications are invited for two tenure-track positions at the ASSISTANT, ASSOCIATE, or PROFESSOR level starting after 1 September 1992. The department seeks a molecular biologist/biochemist with outstanding potential who is investigating hormone action, signal transduction or molecular mechanisms of development and a molecular biologist/biochemist with research interests in membrane structure/function relationships. These people will be required to contribute to the department's teaching program for medical, dental and graduate students and to develop a strong, externally funded research program. The department is well equipped and all members are engaged in funded research projects. A joint appointment with the Fels Institute for Cancer Research and Molecular Biology is possible. Applicants should submit before 15 April 1992, (1) curriculum vitae, (2) a brief statement of research interest and plans, (3) title pages with abstracts of recent publications, and (4) the names, addresses and FAX numbers of three references to: Chair, Search Committee, Department of Biochemistry, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. Temple University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR or FULL PROFESSOR OF ENOLOGY and ASSISTANT, ASSOCIATE or FULL CHEMIST IN THE AGRICULTURAL EXPERIMENT STATION, ANALYTICAL WINE CHEMIST. Applicants are sought for an 11-month tenure-track position available 1 July 1992. The appointee will be expected to teach an undergraduate course in wine chemical analysis, develop a graduate course and research program focusing on development of methods for analysis and identification of trace components in grapes and wines, supervise graduate students, and advise graduate/undergraduate students. Requires a Ph.D. in agricultural chemistry, biochemistry, chemistry or food science and postdoctoral experience using HPLC, GC and related techniques. Send curriculum vitae, publication list, reprints, statements of research and teaching interests, graduate transcripts (if Ph.D. granted in the past 3 years), and names and addresses of three references by 15 April 1992 to:

Dr. A. C. Noble

Department of Viticulture and Enology
University of California, Davis, CA 95616-8749.

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

PROFESSOR OF NUTRITIONAL BIOCHEMISTRY/DEPARTMENT CHAIR (Tenure-track, calendar year position). An earned doctorate in human nutrition, or a closely related discipline, administrative experience, teaching experience in human nutrition preferably at both the undergraduate and graduate level and an established research program with a continuous record of successful external grant support in nutritional biochemistry as related to health issues required. The research focus will preferably apply techniques and methods such as molecular biology, tissue culture or genetics to human health problems. The successful candidate must demonstrate strong communication ability and effective interpersonal skills, and a record of professional activity in national organizations such as the American Institute of Nutrition, the American Dietetic Association or the Institute of Food Technologists. The candidate must have experience at the postdoctorate level, preferably 12 to 15 years, and must be qualified for appointment as a full professor. Must provide leadership to all components of a department which includes dietetics, nutritional and food sciences. Review of applications will begin immediately and continue until position is filled. Submit a letter of application, résumé and three letters of reference to: Geoffrey Greene, Search Committee Chair, Position #191076, The University of Rhode Island, P.O. Box G, Kingston, RI 02881. An Affirmative Action/Equal Opportunity Employer.

SCIENCE welcomes placement of line classified ads by FAX. Please include name and telephone number for our confirmation call when transmitting ad to:

FAX NUMBER: 202-682-0816

POSITIONS OPEN

DIRECTOR OF RESEARCH

Applications are invited for the position of director of research in the Department of Obstetrics and Gynecology at the Albert Einstein Medical Center. The successful candidate will develop an independent research program, oversee other research activities within the department, and participate in teaching programs for medical students and resident physicians. Well-equipped laboratories, technician support, and a faculty appointment at Temple University School of Medicine is available. Candidates must have a Ph.D. degree, several years of productive postdoctoral research experience, and interests in molecular or cell biology as related to reproductive function. Applications should include curriculum vitae, statement of research interests, copies of recent publications, and names of three references. Send to: Dr. Sze-ya Yeh, Chairman, Department of Obstetrics and Gynecology, Klein POB Suite 410, Albert Einstein Medical Center, 5401 Old York Road, Philadelphia, PA 19141.

DIRECTOR, DIVISION OF BIOMEDICAL MARINE RESEARCH, Harbor Branch Oceanographic Institution, to lead a multidisciplinary team of more than 20 scientists in the discovery of marine-derived natural products with potential as therapeutic agents. Responsibilities include the development and supervision of research programs in sample acquisition, biological evaluation, and natural products isolation chemistry; and expansion of research liaisons with industry, academia, and government, with an emphasis on securing additional extramural sponsorship. Qualifications: Ph.D. (M.D.) in chemistry or life sciences, especially biochemistry, biology, pharmacology, or immunology with several years of experience in drug discovery and/or development, and demonstrated management skills. Applicants encouraged to submit résumé and list of publications by 15 April 1992 to: Personnel Director, Harbor Branch Oceanographic Institution, 5600 Old Dixie Highway, Fort Pierce, FL 34946. Equal Employment Opportunity/Affirmative Action Program.

DIRECTOR INSTITUTE FOR CIRCUMPOLAR HEALTH STUDIES (ICHS) UNIVERSITY OF ALASKA ANCHORAGE (UAA)

Responsibilities include: Lead the development of research and scholarship in health-related projects in Alaska and programs with circumpolar countries, including the Soviet Far East and Siberia; actively pursue the acquisition of extramural funding; and teach one course each semester in a biomedical or health-related area.

Qualifications: A Ph.D., D.P.H., or M.D. in biomedical or health-related field; demonstrated executive leadership, communication skills, vision, and integrity; a commitment to meeting the health needs of the Alaskan population.

Applicants should submit a letter detailing their interests and qualifications; a résumé; and names, addresses, and telephone numbers of at least three references to the following: Dr. Michael Dimino, Associate Dean, ICHS Search Committee, Biomedical Program, University of Alaska Anchorage, 3211 Providence Drive, Anchorage, AK 99508. Telephone: 907-786-4608.

UAA is an Affirmative Action/Equal Opportunity Employer and Educational Institution.

OBERLIN COLLEGE

The Biology Department invites applications for a noncontinuing position beginning 1 July 1992 or 1 February 1993. The position has been authorized for one semester or part-time for both semesters. The incumbent will teach neuroanatomy (fall semester) or developmental biology or another advanced laboratory course (spring semester) and participate in team-taught introductory courses. Candidates must demonstrate interest and potential excellence in undergraduate teaching and have a Ph.D. expected or in hand by 1 September 1992. To be assured of full consideration, a letter of application, résumé, undergraduate and graduate transcripts, and at least three letters of reference should be sent to: David Egloff, Chair, Biology Department, Oberlin College, Oberlin, OH 44074 by 16 March 1992. Application materials received after this date may be considered until the position is filled. FAX: 216-775-8960. Equal Opportunity Employer/Affirmative Action.

POSITIONS OPEN

BIOCHEMISTRY, FACULTY POSITION. Tenure-track position in the Department of Chemistry at Auburn University beginning September 1992 to participate in undergraduate and graduate teaching, and to initiate a high-quality fundable research program. Research experience and interests may be in any area of biochemistry, but nucleic acid biochemistry is preferred. Ph.D. and postdoctoral research in biochemistry required; teaching experience is desirable. Send curriculum vitae (noncitizens must include current visa status), statement of research interests and goals, and letters from three references to: Dr. J. H. Hargis, Department of Chemistry, Auburn University, AL 36849. Auburn University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

MICROBIAL ECOLOGIST. The Department of Biology at the University of Southwestern Louisiana (USL) invites applications for a tenure-track position in support of the doctoral program in environmental and evolutionary biology. We seek individuals with broad training in microbiology with research interests in aquatic microbial ecology. Biology faculty are expected to develop an active research program, seek extramural funding and participate in graduate and undergraduate education. Research interests of the biology faculty range from molecular to ecosystem studies and a master's and doctoral program are offered. USL has an exceptionally well equipped Electron Microscopy Center and a Center for Advanced Computer Studies. Other resources include the Primate Research Center, the Center for Crustacean Research, the Louisiana Universities Marine Consortium (LUMCON) marine laboratory and research vessels, and affiliation with the U.S. Fish and Wildlife Service's National Wetlands Research Center. Applicants should submit curriculum vitae, a concise statement of research goals, and the names, addresses and telephone numbers of three references by 1 March 1992 to: Keith R. Roberts, Department of Biology, University of Southwestern Louisiana, Lafayette, LA 70504-2451. Applications will be reviewed starting 1 March 1992 and continue until the position is filled. Affirmative Action/Equal Opportunity Employer.

BIOLOGY. Entry level, tenure-track position with major teaching responsibility in human anatomy and physiology. Ph.D. required, teaching load 15 credit hours per quarter. Augusta College is a 5500-student, senior unit of the University System of Georgia. Review of applications will begin on 9 March 1992. Send curriculum vitae, a statement of teaching philosophy, and names, addresses, and telephone numbers of three references to: Dr. John B. Black, Department of Biology, Augusta, GA 30910. Augusta College is an Affirmative Action/Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.

POSTDOCTORAL POSITION. Regulation of gonadotropin and trophoblastin gene expression in bovine and ovine trophoblast. Opportunity to learn mammalian transgenic technology. Expertise in molecular biology is essential. Position available immediately. Send curriculum vitae and names, addresses and telephone numbers of three references to: George Seidel, Department of Physiology, Colorado State University (CSU), Fort Collins, CO 80523; telephone: 303-491-5287. CSU is an Equal Employment Opportunity/Affirmative Action Employer. E.O. Office: 21 Spruce Hall.

POSTDOCTORAL POSITION available now for 2 years to study unorthodox secretion and developmental function of a vertebrate laminin-binding lectin. Projects involve molecular genetic manipulation of a protein expression in cultured cell lines, protein purification, and immunohistochemistry. Send curriculum vitae, brief research summary, and three letters of reference to: Dr. Douglas N. W. Cooper, LPPI-Box F, University of California, San Francisco, 401 Parnassus Avenue, San Francisco, CA 94143-0984.

A POSTDOCTORAL POSITION to study the interaction of protein kinase C with its intracellular receptors is available immediately. Fellowship is \$27,000 to \$30,000 and includes health insurance. Send curriculum vitae, summary of research experience and names of references to: Dr. Daria Mochly-Rosen, University of California at San Francisco, San Francisco General Hospital, Building 1, Room 101, San Francisco, CA 94110. An Equal Opportunity Employer.



GRASS allergy affects 25 million Americans. All species of grass are highly similar; one single therapy may be effective against allergy to several grasses.



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RAGWEED, a major allergen, affects at least 25 million people in the U.S. with debilitating symptoms.

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In a biotechnology company, it's vital to balance scientific expertise with management ability. Without the proper combination of both, the vision will never become a reality. At ImmuLogic, we are savvy enough to make it work. We're a biopharmaceutical company developing products to treat allergies and autoimmune diseases. We'll be bringing CATVAX, our first product to human clinical trials this year, with others to follow in our ALLERVAX product family. If you'd like to work where science goes beyond theory and potential, join us.

SCIENTISTS/R&D

Manager of Peptide Chemistry

Establish large-scale peptide synthesis capability; and develop scalable and reproducible processes for the production of peptidyl drugs under GMPs. Requires a Ph.D. in Chemistry or a related field; 6+ years' experience in synthetic peptide chemistry; and management/supervisory experience. Industrial experience in large-scale peptide synthesis is highly desirable. **Dept. D/MP.**

Peptide Chemist You'll perform small-scale peptide synthesis and purification, and identification/optimization of preclinical candidate peptides; synthesize radiolabeled peptides; establish large scale peptide synthesis capabilities; and develop scalable processes for production of peptidyl drugs under GMPs. Requires a Ph.D. in Chemistry or a related field, and 4+ years' experience in synthetic peptide chemistry; supervisory experience is preferred. **Dept. D/PC.**

Protein Chemistry You'll study the purification and characterization of allergen and other biologically active molecules. Requires a Ph.D., 6 years' postdoctoral experience, and experience in HPLC purification. **Dept. D/PC.**

Biochemistry/Immunochemistry

Requires a Ph.D. in Biochemistry; and 2 years' postdoctoral experience, including immunochemistry and the characterization of allergens for diagnostic development. Experience in the analysis of antigen-antibody interaction, hybridoma tissue culture and immunoassay development is preferred. **Dept. D/BI.**

Purification Biochemist

With responsibility for protein and peptide purification, you'll identify and optimize product candidates; and develop purification schemes for scale-up and manufacturing under GMP. Requires a Ph.D. in Biochemistry or a related discipline; 2+ years' experience in HPLC purification; and 4+ years' postdoctoral experience in protein/peptide chemistry, preferably in the biotech or pharmaceutical industry. **Dept. D/PB.**

Immunochemist In addition to developing immunoassays to characterize peptides and protein allergens, (including IgE binding), you'll perform immunoassays, and assay optimization/validation — with responsibility for murine T cell proliferation assay to characterize peptide drugs. Requires: a Ph.D. in Biochemistry, or a related field; 2+ years' postdoctoral immunochemical research experience; and familiarity with Western blots, ELISA, RIA and tissue culture techniques. Experience in making hybridoma is preferred. **Dept. D/IC.**

IMMUNOLOGY/RESEARCH

Scientist Participating in epitope mapping for our ALLERVAX program, you'll analyze clinical research programs, define new programs in T cell anergy, and supervise technical staff. Experience in T cell (preferably human) immunology is essential; a Ph.D./M.D. and 2-5 years' postdoctoral experience in Immunology or a related field; and working knowledge of T cell activation pathways are required. **Dept. I/SC.**

Scientist/Sr. Scientist Requires a Ph.D./M.D., extensive postdoctoral experience (4-10 years) in Immunology or a related field, and a management background. You'll participate in epitope mapping and clinical research for our ALLERVAX program; define new programs; supervise staff; and act as a liaison with clinicians. Experience in (preferably human) T cell immunology and cell biology is essential. **Dept. I/SS.**

We're in a position to offer you exceptional opportunities and support for your professional stature, as well as an excellent compensation and benefits package. Please send your resume, referencing the department, to: *Beth Block, Human Resources Manager, ImmuLogic Pharmaceutical Corporation, One Kendall Square, Building 600, Cambridge, MA 02139.* An Equal Opportunity Employer.

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WOMEN IN SCIENCE

13 March 1992

RECRUITMENT ADVERTISERS:

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SCIENCE

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Searle, a leader in pharmaceutical research, development and marketing, has an excellent opportunity for a Senior Research Investigator in the Drug Metabolism Section.

The candidate we select will use his/her skills to design and conduct metabolism and pharmacokinetic studies in animals and man. This position is also responsible for preparing reports that interpret data for internal use as well as for submission to regulatory agencies. As a member of project teams, the Senior Research Investigator will integrate his/her research with that of his/her colleagues in Product Discovery, Clinical and other departments within Research and Development.

The qualified applicant will have a PH.D. in Pharmacology or related field and 2-5 years of experience in drug metabolism/pharmacokinetics.

Investigate the opportunities Searle has for you. Send your resume, in strict confidence, to: **Searle, Human Resources, Dept. JS2, 4901 Searle Parkway, Skokie, IL 60077.** An equal opportunity employer M/F/D.



Ph.D. Pharmacology,
Microbiology or Physiology

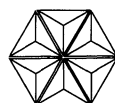
SENIOR MEDICAL WRITER/EDITOR

The Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our extensive research efforts in the areas of cardiovascular, infectious, oncologic and metabolic diseases.

This is an exceptional opportunity for an individual who has a Ph.D. and 3 - 5 years medical writing/editing experience. Candidates should have a thorough understanding of product registration guidelines and regulations along with a demonstrated ability to analyze and interpret scientific data.

Your responsibilities will include supervising a project writing team, preparing integrated summaries/expert reports for regulatory submissions, and assuring compliance with Good Clinical Practices and worldwide product registration guidelines and regulations.

Please forward your resume and salary history to: **Bristol-Myers Squibb Pharmaceutical Research Institute, Dept. 277-BB, P.O. Box 4000, Princeton, NJ 08543-4000.** Equal Opportunity Employer, M/F/H/V.



Bristol-Myers Squibb Company

MOLECULAR BIOLOGIST

5 Prime → 3 Prime, Inc., a leader in the development of unique products for research in molecular biology and genetic engineering, is seeking a Senior Scientist for Research and Development.

The position requires a Ph.D. in Molecular Biology or closely related discipline with a minimum of 2 years postdoctoral training. We are seeking a creative, enthusiastic scientist to join an equally creative group of scientists developing advanced systems for genetics, microbiology, molecular immunology, and protein biochemistry.

5 Prime → 3 Prime, Inc. offers excellent professional growth opportunities and a competitive compensation package. The company, located in Boulder, Colorado, is within minutes of the University of Colorado and the magnificent front range of the Rocky Mountains. Boulder offers a matchless quality of life and unlimited opportunity for academic and cultural stimulation.

Send C.V. and 3 professional references to:



Randolph J. Hellwig, Ph.D.
Director, Research & Development
5 Prime → 3 Prime, Inc.
5603 Arapahoe Avenue
Boulder, CO 80303

BIOPHARMACEUTICS

The INTERx Department of Merck Sharp & Dohme Research Laboratories has an opportunity for a Ph.D. level scientist.

This senior level position requires a Ph.D. or equivalent in biopharmaceutics or other closely related discipline. The ideal candidate would have 1-3 years research experience with in vivo evaluation of dosage form performance, effects of formulation variables on in vivo drug release, and working knowledge of pharmacokinetics.

Excellent salary and benefit programs accompany this position at our modern research facility located on the West Campus area of The University of Kansas in Lawrence, Kansas, 35 miles from metropolitan Kansas City.

Please send letter of application, a current resume, academic transcripts, and names of 3 references to:

Personnel Manager
INTERx Research Corporation
MERCK & CO., INC.

2201 West 21st Street
Lawrence, KS 66047

An Equal Opportunity Employer, M/F/H/V



Merck & Co., Inc.

AN INVITATION TO SUBMIT NOMINATIONS FOR THE KING FAISAL INTERNATIONAL PRIZE IN SCIENCE

The General Secretariat of the King Faisal International Prize is pleased to invite universities & specialist research centers throughout the world to nominate qualified candidates for the King Faisal International Prize in Science. The topic for 1413 H. (1993) is:

"PHYSICS"

Nominations should meet the following requirements:

1. Nominees must have accomplished an outstanding academic work on the Prize topic, benefitting mankind and enriching human progress.
2. Submitted work must be original and published.
3. Only recognized educational or research institutions may make nominations.
4. Each nomination should include:
 - a) an official letter to each nominee.
 - b) a typed list of the nominee's nominated works.
 - c) a typed CV detailing the nominee's academic background, experience and published works.
 - d) ten copies of each submitted work.
 - e) three recent colour photos 4" x 6".
 - f) the nominee's mailing address including:
 - (1) office address, telephone number, telex & fax.
 - (2) home address and telephone number.
5. Nominations will be evaluated by a Selection Committee consisting of highly recognized specialists in the topic.
6. More than one person may share the Prize.
7. The nominee's submitted work will not be accepted if:
 - a) any international organization has previously awarded it a prize;
 - b) it is a university degree;
 - c) it is unpublished.
8. The nomination will not be accepted if:
 - a) the nominee is dead;
 - b) it is nominated by individuals or political parties.
 - c) it does not meet all the prize conditions.
 - d) it is received after the announced date.
9. The Prize consists of:
 - a) a certificate in the winner's name containing an abstract of the work that qualified him/her for the Prize;
 - b) a gold medal;
 - c) a sum of three hundred and fifty thousand Saudi Riyals, (approximately US\$93,333).
10. The winner(s) name(s) will be announced in February 1993, and the Prize will be awarded in an official ceremony at a later date.
11. The latest date for receiving the complete nomination requirements will be September 1, 1992.
12. No nomination papers or works will be returned to the senders, whether or not the nominee was awarded the prize.
13. All correspondence must be sent by registered airmail to:

The General Secretariat
King Faisal International Prize
P.O. Box 22476, Riyadh 11495
Kingdom of Saudi Arabia

Tel 4652255
Tlx 404667 PRIZE SJ
Fax 4658685
Cable JAEZAH

POSITIONS OPEN

POSTDOCTORAL POSITION

To study effects of HIV-1 on human brain cells in vitro in order to define underlying biochemical and molecular mechanisms for virus binding and alteration of phenotype and function of these cells as they relate to CNS AIDS and dementia. Stipend from \$26,220 depending on training and experience. Send curriculum vitae and three letters of reference to: **Dr. Joan E. Merrill, Department of Neurology, Reed Neurological Research Center, University of California Los Angeles (UCLA) School of Medicine, 710 Westwood Plaza, Los Angeles, CA 90024-1680. UCLA is an Affirmative Action/Equal Opportunity Employer.**

The Massachusetts Institute of Technology (MIT) Biotechnology Process Engineering Center has a position available for a senior **POSTDOCTORAL ASSOCIATE** in molecular biology. Research experience in manipulating genes encoding antibody structures and studying their expression in mammalian cells is required. Ability to work with an interdisciplinary group consisting of biologists, chemists, and chemical engineers is essential. The position is available immediately. Send résumé and contacts for three references to: **MIT Personnel Department, 400 Main Street, Cambridge, MA 02139-2124. Please mention job #C92-004.**

POSTDOCTORAL POSITION available immediately to study transcriptional responses induced by genotoxic stress in mammalian cells. Studies will focus on the regulation of HIV-1 expression by genotoxic stress and on HIV-1 regulatory features shared with cellular stress-response genes. Salary is \$25,000 to \$28,000 per year. Experience in molecular biology preferred. Send curriculum vitae and names of three references to: **Dr. A. J. Fornace, Jr., Laboratory of Molecular Pharmacology, Building 37/Room 5C09, National Institutes of Health, Bethesda, MD 20892. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available to study the catalytic and regulatory properties of pterin-dependent hydroxylases. A combination of enzyme kinetics, spectroscopy, protein chemistry, and site-directed mutagenesis is being used to determine the mechanism of catalysis, the role of the active site iron, and the effects of phosphorylation on catalysis and structure. Ph.D. in biochemistry of related field required. Send curriculum vitae and names of three references: **Dr. Paul Fitzpatrick, Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843.**

POSTDOCTORAL TRAINING POSITIONS to study signal transduction pathway from insulin receptor to S6 kinases [*J. Biol. Chem.* 266, 16281 (1991)] and nucleus [*Nature* 353, 670 (1991)]. Experience with recombinant DNA and mammalian expression systems required. Start 1 March 1992 and thereafter. Send curriculum vitae, summary of past work and three references to: **J. Avruch, Chief, Diabetes Research Laboratories, MGH East, Building 149, 13th Street, Charlestown, MA 02129. Telephone: 617-726-6909. FAX: 617-726-5669.**

POSTDOCTORAL POSITION LARVAL-FISH SYSTEMATICS

The School of Fisheries seeks candidates for a postdoctoral position (1 year, renewable), beginning 16 September 1992, to assist in an NSF-funded effort to establish an archival center for fish eggs and larvae as part of the Fish Collection of the University of Washington. The successful candidate will be expected to supervise a program of identification, curation, and utilization of early life history stages of North Pacific and Bering Sea fishes. Opportunities to conduct research and to assist in teaching will be provided. Candidates must have received an earned Ph.D. by the time of hiring. Experience in computer database management and working with museum collections is required. Please send curriculum vitae, names and telephone numbers of three referees, and a statement of career objectives to: **T. W. Pietsch, Curator of Fishes, School of Fisheries, HF-15, College of Ocean and Fishery Sciences, University of Washington, Seattle, WA 98195. Deadline for applications is 1 April 1992.**

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

POSITIONS OPEN

POSTDOCTORAL POSITION— CARDIAC PHYSIOLOGY UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE

A postdoctoral position is available for research in cardiac electrophysiology. The research will involve the use of fluorescent ion-indicators and patch-clamp recording techniques to study sodium, calcium and gap junction conductances in voltage-clamped cardiac cells. Applicants should have a Ph.D. or M.D. and experience in electrophysiology. Interested individuals should send curriculum vitae and names of three references to: **Dr. Michael Gold, Department of Cardiology and Physiology, University of Maryland, 22 South Greene Street, Room N3W79, Baltimore, MD 21201. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION IN MOLECULAR EVOLUTION. Available to study primate and mammalian phylogeny and evolutionary aspects of the developmental regulation of globin transcription. Candidates should be trained in systematic and evolutionary biology or molecular biology and should desire to combine the two fields. Salary range from \$20,000 to \$30,000 per annum, depending on experience. Submit curriculum vitae and names of three references to: **Dr. Morris Goodman, Department of Anatomy and Cell Biology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION, NEUROBIOLOGY. Available immediately to study the functional organization and plasticity of neural circuits in motor cortex. Studies involve field potential and intracellular recording using in vitro slice preparations. Experience with electrophysiological techniques and computers and an interest in motor control preferred. Required: Ph.D. in neuroscience or closely related discipline. Send curriculum vitae with names of three references by 29 March 1992 to: **John P. Donoghue, Ph.D., Center for Neural Science, Brown University, Box 1953, Providence, RI 02912. Telephone: 401-863-2701; FAX: 401-863-1074. Brown University is an Affirmative Action/Equal Employment Opportunity.**

POSTDOCTORAL POSITION. Available immediately for investigating the basis of non-P-glycoprotein multidrug resistance in human leukemia cells. Studies will focus on the characterization of proteins which contribute to resistance and the cloning of cDNAs which encode these proteins. A strong background in molecular biology is essential. Send curriculum vitae with names of references to:

**Dr. Melvin S. Center
Division of Biology
Ackert Hall
Kansas State University (KSU)
Manhattan, KS 66506
Telephone: 913-532-6661**

KSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN MOLECULAR EVOLUTION

Several postdoctoral positions in molecular evolution and systematics are available after 1 July 1992 at Louisiana State University (LSU) and the University of Southwestern Louisiana (USL). Successful candidates will work in the laboratory of one or more of the following investigators: **LSU: M. Blackwell (fungus-insect associations), R. L. Chapman (phycology/bryology), D. W. Foltz (population genetics), D. A. Good (herpetology), M. S. Hafner (host-parasite coevolution), D. P. Pashley (insect-plant interactions), M. Stine (forest genetics), L. E. Urbatsch (vascular-plant systematics), R. M. Zink (avian systematics), and at USL: C. A. Chlan (gene structure/function), J. Neigel (population genetics), V. I. Sullivan (vascular plant genetics).** A research stipend accompanies position. Interested persons who will have completed the Ph.D. by 1 July 1992 should write: **Dr. M. S. Hafner, Museum of Natural Science, Louisiana State University, Baton Rouge, LA 70803, or Dr. J. Neigel, Department of Biology, Box 4251, University of Southwestern Louisiana, Lafayette, LA 70504, to receive application information. Applications will be accepted until 15 April 1992, or until suitable applicants are found. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION IN MOLECULAR IMMUNOLOGY to study somatic mutation of immunoglobulin genes in B lymphocytes. Research will focus on identifying DNA sequences that target hypermutation to antibody variable genes. Candidate should be currently completing their Ph.D. thesis work and have a strong background in molecular biology and immunology. *Candidate must be U.S. citizen or permanent resident.* Please send curriculum vitae and three letters of recommendation to: **Dr. P. J. Gearhart, Department of Biochemistry, Johns Hopkins University School of Hygiene, 615 North Wolfe Street, Baltimore, MD 21205. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS available immediately for Ph.D., candidates with backgrounds in immunology, molecular virology or neurobiology to study neurotropic retrovirus infections. Send curriculum vitae and three references to: **Paul M. Hoffman, M.D., Director, Retrovirus Research Center, VA Medical Center, 3900 Loch Raven Boulevard, Baltimore, MD 21218. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available in molecular developmental biology/neurobiology. Research focuses on a novel family of transcription factors which regulates cell differentiation and development in the brain and in other tissues. Ph.D. and experience in molecular biology or protein biochemistry required. Send curriculum vitae and three references to: **Dr. Eseng Lai, Cell Biology and Genetics, Memorial Sloan-Kettering Cancer Center, Box 83, 1275 York Avenue, New York, NY 10021. Equal Opportunity Employer.**

F. EDWARD HEBERT SCHOOL OF MEDICINE MICROBIOLOGY TRAINING PROGRAM

Pre- and postdoctoral fellowships for students with appropriate degrees in microbiology, biochemistry, cell biology, genetics or related fields are currently available. Fellowships are funded by a training grant and research grants from NIH as well as by intramural stipends. Participating faculty include: **William Gause, Ph.D., Molecular Immunology; Kathryn Holmes, Ph.D., Virus Receptors and Pathogenesis; Randall Holmes, M.D., Ph.D., Bacterial Toxins and Pathogenesis; Frank Jenkins, Ph.D., Molecular Virology; Susan Langreth, Ph.D., Protozoan Parasitology; Anthony Maurelli, Ph.D., Bacterial Pathogenic Mechanisms; Eleanor Metcalf, Ph.D., Microbial Immunology; Alison O'Brien, Ph.D., Bacterial Pathogenesis; Paul Rick, Ph.D., Bacterial Cell Surfaces; Stefanie Vogel, Ph.D., Macrophage Differentiation; Henry Wu, M.D., Ph.D., Membrane Molecular Biology.**

To apply send curriculum vitae and names of three references to: **Dr. Henry C. Wu, Department of Microbiology, Uniformed Services University of the Health Sciences (USUHS), Bethesda, MD 20814-4799. USUHS is an Equal Opportunity Employer.**

POSTDOCTORAL FELLOW in molecular evolution to study the systematics and population genetics of insects. This 3-year position will entail investigating the evolution of the family *Lycaenidae* (*Lepidoptera*), participating in the running of a molecular laboratory and aiding in the assimilation of molecular materials into the MCZ entomology collection. Opportunities for independent research will also be available. To apply, please send curriculum vitae, statement of research interests, and names, addresses and telephone numbers of three references to:

**Naomi E. Pierce
Molecular Evolution Postdoctoral Search
Museum of Comparative Zoology (MCZ)
Harvard University
26 Oxford Street
Cambridge, MA 02138**

Review of applications will begin in mid-April 1992. The starting date is flexible. *Harvard is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

PERSONNEL PLACEMENT ADS in our line classified columns can be boxed for higher visibility. Call **SCIENCE** at 202-326-6555 for details.

This is one fight worth getting into.

Applied Immune Sciences (AIS), located in the San Francisco Bay Area, is involved in one of the most critical technologies of our time — the fight against cancer, AIDS and other immune system diseases. As recently reported, we're pioneering new technology in cellular therapy, which has shown great promise toward boosting the disease-fighting ability of the body's immune system.

Medical Director

Oversee all aspects of a multi-center clinical trial program in immunotherapy. Involves handling regulatory submissions, protocol generation, and data acquisition and analysis. Participation in defining the company's technical strategic direction. Requires an MD/PhD, 5-10 years' experience, and a strong background in immunology. Proven track record in the device or pharmaceutical industry preferred.

Senior Scientist/Cancer Research

Perform investigative research in the development of immune-based treatments for human neoplasms. Requires a broad background in cellular immunology, to include experience in mammalian cell tissue culture and immunological procedures. Advanced working knowledge of flow cytometry and ELISA. Strong publication record essential. Related PhD/MD and 5+ years' post-doctoral experience preferred. Must be willing to work with biohazardous materials.

Senior Scientist/Cellular Immunology

Develop and perform experiments to isolate, characterize, and modulate autoimmune T cells. Requirements include PhD in Immunology or Biology, along with 5 years' post-doc work and solid expertise in the mechanisms of autoimmune disease. A strong publication record is required, along with in-depth experience in tolerance induction. Knowledge of GLP a plus.

Postdoctoral Fellow Two year assignment

Contribute to the development of optimal packaging systems for the production of recombinant AAV vectors. Involves using rAAV vectors to infect a variety of primary cell types. Requires a PhD in Biochemistry, Biology, or Molecular Biology, as well as experience in mammalian tissue culture and transfection. Knowledge of routine molecular biology procedures, and familiarity with recombinant viral vectors, to include AAV. Willingness to handle biohazardous materials essential. Knowledge of recombinant adenoviruses/retroviruses a plus.

To apply, please send your resume and salary history to: Professional Staffing, Applied Immune Sciences, Inc., 200 Constitution Drive, Dept. S-2/14, Menlo Park, CA 94025-1109. Principals only, please. EOE.



CADILA LABORATORIES LTD. (INDIA)

Cadila, the 3rd largest Pharmaceutical Company in India and fast diversifying in the field of Biotechnology needs following positions:

SENIOR RESEARCH SCIENTISTS (PROTEIN PURIFICATION/BIOCHEMISTRY) 2 POSTS

He should be Ph.D. in Molecular Biology/ Protein Chemistry. He will be responsible for purification of Recombinant proteins and their characterization.

RESEARCH SCIENTISTS (PROCESS/QUALITY CONTROL) - 2 POSTS

M.Sc. in Biochemistry/Microbiology/Biotechnology with atleast two years experience of quality control and characterization of proteins by SDS-PAGE and Western Blotting.

We offer a competitive salary and benefits package commensurate with qualifications and experience in addition to opportunity for progressive growth. Indian Scientists coming back with the intention to settling in India preferred. Interested individuals should send their brief curriculum vitae, research achievements, alongwith publications and names of three references with their addresses to the General Manager (P&A), Cadila Laboratories Limited, 244 Ghodasar, Maninagar, Ahmedabad-380 008 (India).

The Tumor Biology Center at the Albert-Ludwigs-Universität Freiburg, Germany invites applications for positions of

SCIENTIFIC GROUP LEADERS

In collaboration with the State of Baden-Württemberg, the Albert-Ludwigs-Universität Freiburg, companies of the pharmaceutical industry (Asta Medica, Frankfurt; Ciba-Geigy, Basel; Schering A.G., Berlin) private investors are establishing a new, independent Tumor Biology Center associated with the Freiburg University Hospital and Medical School. This joint project of private and state initiative will comprise a Cancer Therapy and Rehabilitation Hospital with 200 beds and a Cancer Research Institute. The Center will be inaugurated in 1993. The Research Institute will be devoted to basic and clinical cancer research, particularly studies on the regulation of cell growth through growth factors and hormones, the cellular processing of growth-stimulatory signals, the molecular basis of growth deregulation in transformed cells and rational approaches to counteracting the growth of tumor cells. The research activities of the Institute will be linked to the projects of the Cancer Therapy and Rehabilitation Hospital. These include projects in prophylaxis, early diagnosis and therapy of tumors in endocrine organs, tumor metastasis and clinical pharmacology.

Five independent research groups will be established. These groups will each be provided with salaries for the group leader, a postdoctoral fellow, doctoral students, technicians and laboratory expenses. The positions of the group leaders will require scientists with 3 to 5 years of postdoctoral experience in the fields of molecular and cellular biology, oncogene and tumor suppressor gene research or tumorimmunology and interest and ability to develop a research program relevant to the mission of the Tumor Biology Center. The applicants should be prepared to supplement their groups through competitive research grants. The appointments will initially be for 5 years with the possibility for "Habilitation" at the University of Freiburg.

The positions afford the opportunity to play a creative role in the establishment of a new institution based on the close collaboration between its scientific and clinical staff. The objective of the Center has been described in detail in *Onkologie, Zeitschrift für Krebsforschung und Krebsbehandlung*, Vol. 14, 441-445, 1991. The selection process for these positions will take place in the first half of 1992.

Please send your applications until March 30, 1992 to **Dr. Bernd Groner, Tumor Biology Center, P.O. Box 1120, D-7800 Freiburg, Germany.**

Opportunities with Monsanto Company

Natural Products Chemist

Today's Monsanto is a company with an exciting future in high-value, high-performance products. This is an opportunity to be a part of our natural products screening program at Monsanto Corporate Research Laboratories.

You will be responsible for the isolation and structural elucidation of novel natural products with pharmaceutical and other biological activities. You will also be a liaison between screening personnel and operating company scientists.

Qualifications include a recent Ph.D in organic chemistry, a strong natural products background and experience with state-of-the-art separations technology. Extensive knowledge of complex structure elucidation using 2D NMR techniques, mass spectrometry and other spectroscopic techniques is required. Good communication and interpersonal skills are necessary.

Excellent salaries and benefits combine with the resources of a multi-billion dollar company and state-of-the-art research facilities to make this opportunity exceptionally attractive.

Please send your résumé with references to: Monsanto Company, Mail Zone BB5B-DD, Attn: J. B. Bussen, Manager, Human Resources, 700 Chesterfield Village Parkway, St. Louis, MO 63198. We're an equal opportunity employer. M/F/H/V.

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Monsanto

SENIOR SCIENTIST

The Growth Factor Research Department within the Biochemistry area of Merck Sharp & Dohme Research Laboratories is seeking a senior level scientist interested in the discovery and functional characterization of protein growth factors. Candidates should have a Ph.D. degree in a relevant area, completed at least one year of post doctoral training and have a demonstrated research commitment to either the cell biology or neurobiology of growth factors that complements existing departmental expertise in biochemistry, molecular biology and whole animal biology.

Merck Sharp and Dohme 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, Sharp & Dohme Research Laboratories, R80 A-3, AD 106, P.O. Box 2000, Rahway, New Jersey 07065-0900.**

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Peptidomimetic Research Chemist

A health care company that markets prescription and proprietary products for human and animal health care has an opening for a Peptidomimetic Research Chemist.

The specific duties of this position are: conceiving, planning and executing peptidomimetics chemical research aimed at (1) the synthesis, purification and characterization of targeted molecules and related organic intermediates in ongoing drug discovery efforts and (2) the design of biologically active molecules.

The minimum requirements for the position are a Master of Science degree, or an equivalent, in Chemistry and either one (1) year of experience in the job offered or three (3) years of experience in synthetic/organic chemical research which shall include experience in (i) the multi-step synthesis, purification and characterization of peptidomimetics and (ii) the use of modern spectroscopic techniques including IR, NMR, and MS. This experience may be acquired in conjunction with the required undergraduate and graduate education.

Salary of \$39,483 with liberal employee benefits; M-F, 8am - 5pm. No fee charged. For prompt and confidential consideration, submit resume or C.V. to The Phila. Job Bank, 444 N. 3rd St. - 3rd Fl., Phila., PA 19123 and refer to Job Order Number 4427957.

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Qualifications: Research Assistant with Analytical skills, able to do quantitative measurements, use chemical instrumentation, willing to work with low levels of Carbon-14. Experience in routine chemical synthesis also desirable. Work entails assisting in the preparation of metal chelate linked monoclonal antibodies for use in tumor therapy. Candidate must have a Bachelor's Degree and two years experience or a Master's Degree with one year experience in doing chemistry.

Send Curriculum Vitae or, for further information contact:

Dr. Otto A. Gansow
National Cancer Institute
National Institutes of Health
Building 10, Room B3B69
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-5936

NIH is an Equal Opportunity Employer

UNIVERSITY OF HONG KONG Lecturer in Pharmacology (Ref. 91/92-68)

Applications are invited for a Lectureship in the Department of Pharmacology. Applicants should possess a higher degree (a medical qualification at first degree level would be desirable) and have experience in teaching medical and dental undergraduates. A proven record of ongoing research, as evidenced by publications in reputable journals, especially in the area of cardiovascular pharmacology, will be viewed favourably.

Annual salary (superannuable) is on an 11-point scale: HK\$309,120-516,480 (approx. US\$1=HK\$7.75 as at 8 January 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 (40242), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK; or from the Faculty of Medicine, University of Hong Kong, 7 Sassoon Road, Pokfulam, Hong Kong (Fax (852)-8559742).

Closes **18 March 1992**.

Scientific Directors

MicroGeneSys is a recognized leader in the development of recombinant vaccines. Our AIDS therapeutic vaccine, VaxSyn®, is currently in multi-center studies around the United States and abroad. Rapid growth of our product portfolio has created an outstanding opportunity for qualified professionals who thrive in a dynamic, challenging environment.

We are seeking scientists for **Director** level positions in the following to lead this exciting work in the area of therapeutic and prophylactic vaccines.

Molecular Biology

We are looking for a highly motivated individual to direct the Molecular Biology department in developing commercial applications of recombinant DNA technology. The ideal candidate is expected to establish new technologies in molecular biology and to provide support to our current therapeutic and prophylactic vaccine programs.

Candidates should have broad experience with expression vector technologies, including *E. coli*, mammalian or baculovirus systems. Applicants should have a strong foundation in molecular biology and related techniques including construction of recombinant molecules, cloning, PCR technology, and oligonucleotide synthesis.

Qualifications include a Ph.D. in Molecular Biology, Microbiology or Biochemistry with 5-10 years post-doctoral and/or industry experience.

Immunology

We are looking for an individual to build a dynamic Immunology department. The ideal candidate should have a strong background in T and B cell research, adjuvant formulation, and the use of animal models in vaccine development.

Candidates should also have hands-on experience in basic immunological and microbiological techniques, immunoassay development and hybridoma technology.

Qualifications include a Ph.D. in Immunology with 5-10 years post-doctoral and/or industry experience.

Protein Chemistry

We are looking for a leader to direct activities for analytical to process-scale protein purification including purification design and methods of development. The ideal candidate will then transfer this technology to the production of pharmaceutical grade proteins. This position entails leading a strong research effort with an emphasis on the preparation of biologically active proteins for clinical trials and commercial development.

Candidates should have experience in HPLC, FPLC, and other conventional chromatographic techniques as well as basic methods for the analysis and separation of proteins. Responsibilities include purification and characterization of native soluble and membrane-bound recombinant proteins.

Qualifications include a Ph.D. in Protein Chemistry, Biochemistry, or Chemistry with 5-10 years post-doctoral and/or industry experience.

Successful candidates for these positions must demonstrate the necessary creativity to design and to direct the development of new recombinant biopharmaceutical products. Experience in managing projects in the pharmaceutical or biotech industry is desirable. Ability to interact with upper management as well as technical and scientific staff is essential.

MicroGeneSys offers competitive salaries and benefits as well as significant growth potential. Our campus-like facility is located between Hartford and New Haven for convenient access to all of New England. Interested candidates should forward their curriculum vitae, in confidence, to:



MicroGeneSys, Inc.

1000 Research Parkway, Dept SC
Meriden, CT 06450-7159

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SENIOR SCIENTIST

GENE-TRAK Systems Corporation is a worldwide leader in developing DNA probe based products for diagnosis of infectious diseases. A wholly owned subsidiary of Amoco Technology Company, GENE-TRAK is commercializing an integrated line of DNA probes and automated instruments.

We are seeking a senior scientist to lead a research team evaluating new immunoassay technologies for commercial application. As a senior chemist, this individual will interact with other scientific teams developing automated nucleic acid assays and will participate in the development of longer-range research strategies for next-generation automated diagnostic assays. The successful candidate will have a Ph.D. in organic/inorganic chemistry or related area with 4-7 years of post-doc or product development experience. Commercial experience in the development of immuno and/or nucleic acid diagnostic assays strongly preferred.

GENE-TRAK Systems, located in the western suburbs of Boston, offers an excellent compensation, incentive and benefits package. For immediate consideration, please forward your CV to: Human Resources, GENE-TRAK Systems Corporation, 31 New York Avenue, Framingham, MA 01701. We are an Equal Opportunity Employer, m/f/d/v.

GENE-TRAK
SYSTEMS

ELECTRON MICROSCOPY LAB SUPERVISOR

Your college degree and minimum of 5 years related experience can help you win this key position with Carolinas Medical Center. Recognized for excellence in all facets of operation, our 777-bed teaching and research center is seeking a self-starter who shares our unwavering commitment to quality.

Broad-based challenges include overseeing day-to-day operation of the transmission electron microscopy lab, including staff supervision and record keeping. We will also look to you to assist with specimen fixation, embedding, sectioning and photomicroscopy. ESMA certification is preferred.

We provide an attractive salary/benefits package and a stimulating, supportive professional environment. Located in the dynamic city of Charlotte, NC, we can offer you a quality of life that's second to none. For prompt, confidential consideration, direct your resume to:

CAROLINAS MEDICAL CENTER
Human Resources
P.O. Box 32861
Charlotte, NC 28232
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**CAROLINAS
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Microbiologist Organic Chemist

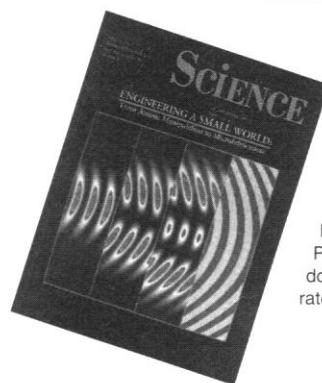
A petrochemical company is looking for a microbiologist with fermentation background and a synthetic organic chemist within its R & D Center in U.S.A. A qualified candidate should have a Ph.D. degree in the relevant fields with industrial experience.

We offer excellent benefits, relocation assistance and competitive salary commensurate with experience. If interested and qualified, send your resume in confidence to:

**Dept. of Human Resources,
P.O. Box 10271
Fairfield, NJ 07004**

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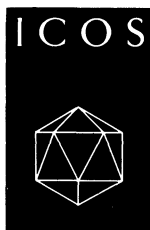
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FAX: 202-682-0816

PROTEIN CHEMISTRY

ICOS Corporation is combining biotechnology and pharmaceutical sciences to form a powerful coalition for drug discovery. We are currently conducting studies on cell adhesion and signal transduction to develop new biopharmaceuticals for the treatment of a broad array of human inflammatory diseases.

We are seeking a Ph.D.-level scientist in Protein Chemistry proficient in synthesizing/sequencing peptides, performing amino acid analysis with demonstrated ability in the modification, separation and purification of peptides/proteins to lend technical support for our ongoing research efforts on the mechanisms of cellular adhesion and signal transduction. Experience in HPLC methods development, together with expertise in using automated and non-automated peptide sequence and synthetic technologies with their associated chemistry is essential.

ICOS is located in the Seattle area and offers competitive salaries and a benefits package that includes stock options, fully paid insurance benefits, and a 401(k) plan.



Send your resume to:

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ICOS Corporation is an equal opportunity employer.



THE ALEX G. NASON PRIZE 2-YEAR COMPUTATIONAL SCIENCE POSTDOCTORAL FELLOWSHIP at SYRACUSE UNIVERSITY

**Application Deadline
Extended to March 15, 1992**

The Alexander G. Nason 2-year postdoctoral fellowship encourages talented scientists to participate in the research of the Syracuse Center for Computational Science (SCCS) at Syracuse University. SCCS, directed by Geoffrey Fox, offers an interdisciplinary program where researchers use high performance parallel computers on scientific and industrial applications and develop hardware, software and algorithms.

The Alex G. Nason Prize, a 2-year computational science postdoctoral fellowship for 1992-93, will begin in either the Summer '92 or Fall '93 semester. Individuals who have been awarded a PhD in the past 3 years (Spring '89 or later) are eligible. Preference will be given to applicants who have demonstrated ability in interdisciplinary research, combining computer science with application areas. Current application areas of interest include Physics, Financial Modeling, Neuroscience, Aerospace Engineering and Virtual Reality. The parallel computing facilities of Syracuse University, including the Connection Machine CM-5, the DECmpp 12000, the nCUBE2, and the Encore Multimax will be available to the recipient. The Nason Prize for '92-'93 will include a salary of \$50,000 plus fringe benefits, a \$5,000 annual research fund and a \$5,000 departmental fund to assist the fellow with relocation, personal workstation support, conference travel, etc.

For more information, contact **Betty LaPlante** at (315) 443-1722 or send Email to bl&nova.npac.syr.edu. To apply, send a cover letter, curriculum vitae, and three letters of reference to: **Betty LaPlante, Support Coordinator, NPAC/SCCS, 111 College Place, Syracuse, NY 13244-4100. Materials must be postmarked on or before March 15, 1992.** Syracuse University is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR RESEARCH & DEVELOPMENT

Prestigious, multi-national corporation located in the upper Midwest is seeking a Director of Research & Development. We are a major developer of veterinary biological vaccines with annual sales of \$150M with an R & D budget of 15% of sales.

Candidates will direct a team of highly technical, successful scientists and project/department budget. To qualify, the candidate will have the following credentials:

- Ph.D. in the biological sciences
- Ten years experience managing R & D vaccine development project teams
- Demonstrated success in licensing of vaccines domestically and internationally
- Thorough knowledge of 9CFR regulations
- Strong organizational and developmental skills

We offer a compensation package including executive bonus program plus an outstanding benefits program inclusive of relocation. Please submit your resume in complete confidence to:

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Dept. 2 MP 68 - S
One Appletree Square
Minneapolis, MN 55425**

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UNIVERSITY OF FLORIDA

Vice President for Agriculture & Natural Resources

Applications and nominations are invited for the position of Vice President for Agriculture & Natural Resources, administrative head of the Institute of Food and Agricultural Sciences (IFAS). IFAS encompasses five major units: the College of Agriculture; the Agricultural Experiment Station; the Cooperative Extension Service; the School of Forest Resources and Conservation; and elements of the College of Veterinary Medicine. Within IFAS there are 2,000 students, some 900 faculty members located in 23 academic departments on the main campus, 13 administrative research and education centers throughout the state and extension offices in every county. A doctoral degree in an appropriate discipline and 10 years experience are required.

Nominations and applications should be submitted by April 15 to Mr. Malcom Randall, Vice President Search Committee Chair, 226 Tigert Hall, University of Florida, Gainesville, FL 32611. The University of Florida is an Equal Opportunity, Affirmative Action Employer and the search is conducted in accordance with Florida's open meeting and "sunshine" law.

MOLECULAR IMMUNOLOGIST

The Department of Microbiology and the Molecular Science Center at the University of Texas Medical Branch at Galveston, Texas (UTMB) are seeking applicants for a tenure track faculty position at the Assistant Professor level. Qualified immunologists with a Ph.D., D.Sc., and/or M.D. are invited to apply. The individual would be expected to develop an independent research program focusing on the molecular biology of the immune response including studies on Ig/TcR proteins, antigen-MHC interactions, and the structure/function of proteins involved in lymphocyte activation. The applicant would also be expected to actively interact with the Molecular Science Center in studies of regulation of gene expression via secondary messengers or at the genomic level. This individual would have a joint appointment in the Department of Microbiology and the Molecular Science Center. UTMB has excellent and expanding programs in immunology and molecular biology. These, plus an exceptional start-up package, make this a unique opportunity for career advancement. Submit curriculum vitae, statement of research interests, and the names, addresses, and telephone numbers of three references by May 1, 1992 to:

**Immunology Search Committee
c/o Gary R. Klimpel, Ph.D.
Department of Microbiology, J-19
UTMB
Galveston, Texas 77555-1019**

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Our commitment to improve human life continues with the development of advanced health care products. We invite you to develop professionally and to participate in our Rational Drug Design and Protein Engineering efforts.

Macromolecular Crystallographer

The selected candidate will be a Protein Crystallographer with a Ph.D and postdoctoral experience. All candidates must be capable of conducting independent research using the techniques and methodology of protein crystallography to solve problems of biomedical interest. The research will involve elucidating the three-dimensional structure of enzymes and enzyme/inhibitor complexes of interest in the areas of neurosciences, immunosciences, cardiovascular, inflammatory, bacterial and viral diseases. This position will interact with the Computer Assisted Molecular Design Group and Molecular Biologists.

Our Protein Crystallography Laboratory is equipped with two Rigaku 12 kw rotating anode x-ray generators, a Nicolet-Xentronics area detector and a forthcoming Image Plate Detector. Abbott is a member of the Industrial Macromolecular Crystallography Association (IMCA), which is actively pursuing construction of synchrotron beamlines for protein crystallography in the Advanced Photon Source. Our computers and graphics facilities are state-of-the-art.

Abbott provides an excellent salary and benefits package including profit-sharing and a stock retirement plan. We are located in an attractive suburban setting approximately 30 miles north of Chicago. For consideration, please send a resume, including salary history, to: Patricia Handy, Corporate Placement, Job #CAZ7623, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

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Postdoctoral Fellowships in New Drug Development

The Department of Clinical and Scientific Affairs (CSA) of Pfizer Pharmaceuticals, in New York City, is announcing its annual competition for Postdoctoral Fellowships in New Drug Development.

The Department of Clinical and Scientific Affairs has a broad range of activities. It is responsible for designing and conducting non-clinical and clinical development programs, as well as investigating and developing new claims and indications for marketed drugs. CSA also designs and conducts the clinical development programs for new formulations and dosage forms of existing products.

Participants in the Postdoctoral Fellowship Program in New Drug Development will become members of project teams and gain experience in developing non-clinical as well as clinical research programs. While no laboratory or clinical studies are actually conducted at Pfizer in New York, Fellows will interact with specialists in their chosen field to have studies performed at contract laboratories and universities, or with individual investigators.

A total of two awards will be given annually for non-clinical and clinical research related to new drug development in the fields of cardiovascular medicine, central nervous system, microbiology, pharmacology, pharmacokinetics, drug metabolism, or toxicology. Salaries will be determined by the qualifications and experience of the applicant. The deadline for submitting applications is April 1, 1992. Announcement of the awards will be made in early June 1992.

For further information contact: Postdoctoral Fellowship Program in New Drug Development, Clinical and Scientific Affairs Department, Pfizer Pharmaceuticals, 235 East 42nd Street, 15th Floor, Stop 24, New York, NY 10017-5755, Attn: Charlene Mirett, Personnel Manager. Pfizer is an equal opportunity employer.



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POSITIONS OPEN

POSTDOCTORAL FELLOW

Position available immediately to study the use of liposomes and lipid-based systems to deliver defensins for the treatment of opportunistic infections. This position requires a Ph.D. in physical chemistry, biochemistry, biology or related discipline with a background in liposomology, membrane biophysics or lipid physical chemistry. Send curriculum vitae and three references to: Human Resources, The Liposome Company, Inc., One Research Way, Princeton, NJ 08540. An Equal Opportunity Employer.

RESEARCH SCIENTISTS MOLECULAR GENETICS AND IMMUNOLOGY WADSWORTH LABORATORIES

Applications are invited for entry level, staff scientist positions from candidates with background in molecular genetics or immunology. They will be expected to develop a strong, independent basic research program. Two positions are available immediately:

- **MOLECULAR BIOLOGIST.** Training in molecular genetics, medical microbiology, nucleic acid and/or protein biochemistry, with interest in regulation of gene expression in prokaryotes or lower eukaryotes.
- **CELLULAR IMMUNOLOGIST.** Training in cellular immunology, with an interest in lymphocyte activation, interaction and/or regulation.

The Wadsworth Center for Laboratories and Research provides a stimulating research environment, combining excellent facilities with multidisciplinary and interactive programs. The research facility houses the graduate program of the School of Public Health of the State University of New York.

Ph.D. or equivalent with a minimum of 2 years of postdoctoral experience preferred. Salaries from \$37,821 commensurate with experience.

Send curriculum vitae, a statement of future research interests and the names, addresses and telephone numbers of three references by 26 March 1992 to:

Dr. Marlene Belfort (Molecular Biology)

or

Dr. Donal Murphy (Immunology)

Health Research, Inc.

P.O. Box 2077

Albany, NY 12220

WADSWORTH POSTDOCTORAL FELLOWSHIPS MOLECULAR MECHANISMS OF DRUG RESISTANCE THE WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

The Wadsworth Center is initiating a broad-based research program on the molecular mechanism of drug resistance. Applications are invited for several 2-year postdoctoral fellowships which are available immediately. This initiative will involve the coordinated efforts of several principal investigators and their groups including the postdoctoral fellows on the following areas (1) acquired drug resistance in transformed mammalian cells, (2) resistance arising during viral infections, (3) multiple antibiotic resistance in mycobacteria, (4) drug resistance in parasitic protozoa, and (5) model systems for studying drug transport and receptors at the molecular level. The initiative will expand and enhance established research programs in the molecular genetic, biochemical, biophysical, and cellular characteristics of biological systems that acquire drug resistance in vivo and in vitro. The Wadsworth Center is a well-staffed research institute with centralized core facilities in molecular biology, immunology, biochemistry, light and electron microscopy and cell structural analysis, and informational and computer service to aid in the pursuit of these projects. This unique facility houses graduate programs of the School of Public Health of the State University of New York at Albany. Albany offers the cultural and recreational advantages of an upstate New York community, with ready access to major metropolitan areas (New York, Boston, Montreal). The salaries are competitive and commensurate with experience. Interested applicants should send curriculum vitae and the names of three references to: Dr. John Galivan, Director of the Laboratory of Pathology, Wadsworth Center for Laboratories and Research, New York State Department of Health, Albany, NY 12201-0509.

POSITIONS OPEN

POSTDOCTORAL POSITIONS MOBILE SELF-SPLICING INTRONS MOLECULAR GENETICS PROGRAM WADSWORTH LABORATORIES

Nucleic acid rearrangements of group I introns are studied at the RNA and DNA levels. Projects include analysis of self-splicing RNAs and DNA-based intron mobility in prokaryotes using genetic and biochemical approaches [*Ann. Rev. Gen.* 24, 263 (1990)]. Protein-nucleic acid interactions also under investigation. Experience in protein and/or nucleic acid chemistry, genetics desirable. Competitive federally funded salary commensurate with experience.

Send curriculum vitae and names of three references to: Dr. Marlene Belfort, Wadsworth Laboratories and School of Public Health, State University of New York, Box 509, Empire State Plaza, Albany, NY 12201-0509.

POSTDOCTORAL FELLOWSHIPS

The Evans Department of Medicine, Boston University Medical Center, solicits applications for its fellowship program from outstanding individuals holding an M.D. and/or Ph.D. The program is dedicated to excellence in biomolecular medicine and basic science. Areas of special expertise include:

CELL PHYSIOLOGY
CLINICAL SCIENCE
DEVELOPMENTAL BIOLOGY
GENE REGULATION
IMMUNOLOGY
MOLECULAR GENETICS
TUMOR BIOLOGY
VASCULAR BIOLOGY

Appointments will be for 3 years. Competitive stipends, generous supply and travel allowance, and health insurance will be provided. Applications are due 15 April 1992 and may be obtained from:

Dr. John Murphy
Department of Medicine
Boston University Medical Center
88 East Newton Street
Boston, MA 02118

Awards will be announced 15 June 1992. Start date is flexible for any time after 1 July 1992, and can be coordinated with receipt of Ph.D. or completion of clinical training in medical subspecialty.

THE UNIVERSITY OF MICHIGAN MEDICAL CENTER DEPARTMENT OF PATHOLOGY

POSTDOCTORAL FELLOWSHIP available in molecular biology of the pituitary gland and other endocrine tissues. A background in molecular biology or chemistry required. Starting date July 1992. Contact: R. V. Lloyd, M.D., Ph.D., Department of Pathology, University of Michigan Medical Center, 26332/0054, Ann Arbor, MI 48109.

POSTDOCTORAL RESEARCH FELLOW. The Parkinson's Disease Clinical and Research Center, Department of Neurology at the University of Kansas Medical Center is recruiting a basic scientist to continue studies in animal models of Parkinson's disease. This position is available immediately. Ph.D. and postdoctoral experience required. Salary commensurate with experience. Submit curriculum vitae and names of references to: William C. Koller, M.D., Ph.D., Department of Neurology, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160-7314.

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RESEARCH ASSOCIATE POSTDOCTORAL FELLOW

Position available for Ph.D. to join and aid in the direction of an active hematopoiesis and stem cell transplantation program. Laboratory studies include (1) mechanisms of mobilization of blood stem cells, (2) influence of cytokines on stem cell subpopulations, (3) role of donor stem cells and host preparation on engraftment, and (4) protection of stem cells with regulatory molecules. Direct inquiries to:

Peter Mauch, M.D.
Harvard Medical School, JCRT
50 Binney Street
Boston, MA 02115

Purdue University West Lafayette, Indiana

Purdue University invites applications and nominations for the position of Dean of the School of Science.

Established in 1867, Purdue is Indiana's land-grant university. The West Lafayette campus, located one hour north of Indianapolis and two hours south of downtown Chicago, encompasses thirteen Schools, with an enrollment of 36,000 students. The School of Science is made up of seven departments: Biological Sciences, Chemistry, Computer Sciences, Earth and Atmospheric Sciences, Mathematics, Physics and Statistics. With 300 faculty, 1000 graduate students and more than \$30 million in annual sponsored-research expenditures, the School operates a number of the largest and most important programs in the University.

The Dean's primary mission is to provide vision and leadership in the School, promoting an environment optimal for the pursuit of scholarship in teaching and research. The Dean joins with the School's department heads and faculty to assure that learning activities of the highest quality flourish at all levels, from undergraduate education to graduate research. As chief academic and administrative officer of the School, the Dean actively represents the School to a variety of constituencies inside and outside the University. The Dean reports directly to the Executive Vice President for Academic Affairs, and works closely with other deans, vice presidents and the President.

Qualified candidates will have distinguished research and teaching records appropriate for a tenured full Professorship, and demonstrated excellence in academic management. They will have a working knowledge of the national research and funding milieu. They will be sensitive to all the constituencies served by the University and be able to articulate and advocate the goals of the School. They will evince enthusiasm for meeting the multifaceted challenges of academic leadership.

Applications and nominations should be sent to: Professor Henry T. Yang, Chairman of the Search Advisory Committee, ENAD 101, Purdue University, West Lafayette, IN 47907.

Screening will commence March 9, 1992, and continue until the position is filled.

Purdue University is an equal opportunity/affirmative action employer. Minority and women candidates are especially encouraged to apply.

Dean, School of Science

PRESIDENT

The Council of the State University of New York Health Science Center at Syracuse invites nominations and applications for the position of President of the Health Science Center.

The SUNY Health Center at Syracuse is a comprehensive health sciences campus of the State University of New York comprised of the Colleges of Medicine, Health Related Professions, Graduate Studies and Nursing, the University Hospital and a satellite clinical campus in Binghamton, New York. It is the primary medical/health care professional education and patient care resource for the fifteen county region of Central New York. The Health Science Center at Syracuse, through its 500 full and part-time faculty, serves approximately 1100 students in its colleges as well as 375 graduate medical education residents. It employs approximately 4,400 staff to fulfill its mission of excellence in teaching, research and patient care and supports these endeavors with a \$285 million budget.

The Council, through its Search Committee, seeks an outstanding individual to lead the Health Science Center at Syracuse who possesses the following qualifications:

An established academic reputation and credentials appropriate to a presidential appointment (M.D., Ph.D. or comparable earned degree);

A significant record of administrative accomplishment and an understanding of the operations of a university medical center;

The ability to work effectively with all constituencies within the Health Science Center (faculty, administrative officers, staff, students, alumni and others) and to provide decisive yet sensitive leadership to the campus as a whole;

The ability to assess and communicate convincingly the Health Science Center's mission, needs and strengths to SUNY system officers, to community leaders and groups, to elected officials and agencies at all levels of government, to healthcare service constituencies and to potential donors;

A commitment to the principles of diversity and equal opportunity.

The Presidential Search Committee will begin the review of candidates immediately and continue until the position is filled. The new President will assume office on September 1, 1992 or as soon as possible thereafter. Candidate nominations or expressions of interest (with a letter of interest, resume and the names of three references) should be submitted to:

N. Theodore Sommer, Chairperson
Presidential Search Committee
SUNY Health Science Center at Syracuse
750 East Adams Street
Syracuse, New York 13210-2399

All inquiries, nominations and applications will be held in confidence. SUNY Health Science Center at Syracuse is an Affirmative Action/Equal Opportunity Employer with a strong commitment to racial, cultural and ethnic diversity.

POSITIONS OPEN

POSTDOCTORAL FELLOW STRUCTURAL BIOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

A position is available for a postdoctoral fellow interested in the crystallographic study of protein-DNA complexes. Projects may involve: (1) crystallographic studies of key DNA-binding motifs (zinc fingers, homeodomains, etc.), (2) using structural information to help design novel DNA-binding proteins, and/or (3) developing novel methods for the cocrystallization of protein-DNA complexes. A strong background in macromolecular crystallography is required. To apply, or to obtain further information, please contact: **Carl O. Pabo, Department of Biology, 16-619, Massachusetts Institute of Technology, Cambridge, MA 02139.**

POSTDOCTORAL FELLOWSHIPS IN NEUROSCIENCE MINORITY FELLOWSHIP PROGRAM

Applications are invited for support by the Minority Fellowship Program (MFP) in Neuroscience of the American Psychological Association (APA) and the Association of Neuroscience Departments and Programs (ANDP). Supported by the National Institute of Mental Health (NIMH), this competitive program provides postdoctoral research fellowships in mental health sciences at sites selected by the applicant in consultation with the MFP. The MFP augments traditional research training through activities that bring fellows from sites across the country together for exchange of science, interactions with neuroscientists at all levels, and career workshops. Included are a workshop at the Marine Biological Laboratory in Woods Hole, Massachusetts, a reception and poster session at the Society for Neuroscience annual meeting, and regional neuroscience meetings. Recipients must have a Ph.D. or M.D., with appropriate research experience in neuroscience or in allied disciplines, such as cell or molecular biology or immunology. To request application materials, contact: **The Minority Fellowship Program (APA/ANDP), Postdoctoral Research, 750 First Street, N.E., Washington, DC 20002-4242; telephone: 202-336-6027.** Application deadline is 1 April 1992.

CONSIGLIO NAZIONALE DELLE RICERCHE ROME-ITALY

SPECIAL PROJECT RAISA ADVANCED RESEARCH FOR INNOVATIONS IN THE AGRICULTURAL SYSTEM RESEARCH FELLOWSHIPS IN AGRICULTURAL SCIENCES

RAISA, a 5-year broad spectrum research project by National Research Council of Italy, confirming the scientific interest of the former scheme, has established a New Fellowship Scheme to offer senior scientist from abroad the opportunity to work, for a period of 3 to 11 months, in any Italian institution affiliated to the project.

RAISA activities are carried out by around a hundred research teams, whose main goal is to acquire the basic knowledge to foster the evolution of the Integrated Agricultural System toward a more equitable farmers' income, more sustainable exploitation of resources, better fulfillment of consumers' preferences and nutritional demands.

The fellows will be expected to pursue their research program within the remit of the host research team, but will have the opportunity of liaising with, and taking advantage of, expertise and facilities at other research teams within the project.

A list of research trusts and teams is available upon request.

The gross salary is from Lit. 2.500.000 per month, according to qualification, plus economy return ticket from home institution to Italy.

Applicants should present a research proposal of about three pages, with their application, curriculum vitae and a letter of acceptance from a RAISA host team, to: **C.N.R. P.F. RAISA, Fellowship Program, Via Tiburtina 770, I 00159 Rome, Italy. FAX: (+39 6) 4392963 or 4075883.**

Deadline for receipt of applications is 31 March 1992 and successful candidates will be notified in April; they are expected to start their research in Italy within 1992.

POSITIONS OPEN

LAKE CHAMPLAIN SUMMER FELLOW. Available July to August 1992 for outstanding postdoctorate scholar to participate in research on Lake Champlain in such areas as physical processes, toxics, and bioenergetics. Successful candidate will work closely with members of Lake Champlain Research Consortium. Funds available for stipend, living expenses and modest supply support. Send letter of inquiry, including research interests, and curriculum vitae by 1 March 1992 to: **Dr. Alan McIntosh, Vermont Water Resources and Lake Studies Center, University of Vermont, Burlington, VT 05405.**

POSTDOCTORAL RESEARCH FELLOW. Position available to join a program studying the functional role of prenylation of lamina proteins—particularly in their assembly and in the regulation of cell cycle progression. This project utilizes techniques of protein biochemistry, cell biology and molecular biology. For a recent reference, see [Beck *et al.*, *J. Cell. Biol.* 110, 1489 (1990)]. Send curriculum vitae to: **Dr. M. Sinensky, Head, Lipid and Lipoprotein Division, Eleanor Roosevelt Institute, 1899 Gaylord Street, Denver, CO 80206. Equal Employment Opportunity. Minority and women applicants encouraged.**

POSTDOCTORAL RESEARCH ASSOCIATE

A position is open to participate in ongoing research investigating the role of insulin-like growth factors and insulin-like growth factor binding proteins in tumor proliferation. Applicants should have experience in molecular biology including Southern and Northern analysis, transient transfections and gel-shift assays. Send curriculum vitae to: **Joseph A. Fontana, M.D., Ph.D., University of Maryland at Baltimore, Cancer Center, Room S9D05, 22 South Greene Street, Baltimore, MD 21201.**

POSTDOCTORAL RESEARCH ASSOCIATE position is available 1 March 1992 to study the acute and chronic aspects of the negative effect of alcohol on antihypertensive therapy. Studies will involve hemodynamic and electrophysiologic measurements in chronically instrumented conscious rats as well as central administration of drugs to investigate the role of central sympathetic pathways in the interaction. Candidates must have a Ph.D., M.D., D.V.M. or equivalent degree. Familiarity with hemodynamic measurements is desirable. Send curriculum vitae, description of research experience, and names of three references to: **Dr. Abdel A. Abdel-Rahman, Department of Pharmacology, School of Medicine, East Carolina University, Greenville, NC 27858.** Federal law requires proper documentation of identity and employability at the time of employment. *An Affirmative Action/Equal Employment Opportunity Employer.*

POSTDOCTORAL POSITION RESEARCH ASSOCIATE

An NIH-funded position is immediately available to study the regulation and function of mammalian cell cycle genes. One of these genes, the p58 protein kinase (PNAS 87, 7467-7471), may be involved in certain neoplasias with a deletion of human chromosome region 1p36 (*Genomics* 11, 621-629). Applicants should have a Ph.D. or M.D. with experience in protein biochemistry, molecular and cell biology techniques. Salary is highly competitive.

Send curriculum vitae and the names, addresses, and telephone numbers of three references to: **Dr. Vincent Kidd, Department of Tumor Cell Biology, St. Jude Children's Research Hospital (SJCRH), 332 North Lauderdale, Memphis, TN 38105.**

SJCRH is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE. Position available immediately to participate in a collaborative study of glycolipid organization in bilayers and biological membranes. Biophysical, biochemical and electron microscopic techniques are used. Send curriculum vitae and names of three references to: **Dr. Thomas W. Tillack, Department of Pathology (Box 214) or Dr. Thomas E. Thompson, Department of Biochemistry (Box 440), University of Virginia Health Sciences Center, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE POSITION

Research associate position available (Ph.D. in medicinal chemistry or pharmacology) to conduct synthesis and pharmacological evaluation of few novel nitrogen heterocycles that have exhibited some analgesic, anti-inflammatory and hyperglycemic activities on preliminary testing. Salary range: \$27,000 to \$29,000 per year. If interested, please apply before 21 March 1992: **Dr. Ken Redda, College of Pharmacy and Pharmaceutical Sciences, Florida A&M University, 127 Dyson Pharmacy Building, Tallahassee, FL 32307; telephone: 904-599-3910/3623.**

BIOCHEMIST RESEARCH ASSOCIATE

Direct research projects in the field of muscle research which focus on the molecular understanding of muscle actin through detailed mapping of protein-protein interaction sites and protein structure by using peptide antibodies. Prepare and maintain supply of antibodies for all the ongoing projects in the laboratory. Provide scientific and technical assistance to other graduate and postdoctoral fellows. Publish in scientific journals. Requirements: Ph.D. in biochemistry. Specialized knowledge in nonmuscle actin, contractile proteins and immunochemical and protein biochemistry techniques. Ability to determine protein structure by peptide antibody methods and to use electron microscope, fluorescence, and light scattering techniques. Salary: \$34,300 year. Job/interview site: Los Angeles, California. Send this ad and résumé to: **Job #CC5398, P.O. Box 9560, Sacramento, CA 95823-0560** no later than 24 February 1992.

An **ASSOCIATE RESEARCH SCIENTIST** position is available for structural studies on CD8. Candidates must have a strong background in both crystallography and molecular biology. Submit curriculum vitae to: **Wayne A. Hendrickson, Department of Biochemistry and Molecular Biophysics, Columbia University, New York, NY 10032. Columbia University takes Affirmative Action to ensure Equal Opportunity.**

ASSISTANT RESEARCH BIOCHEMIST. *Azotobacter* nitrogenase structure and function, University of California, Irvine (UCI).

A position is available to study nitrogenase structure and function by construction of site-directed mutants, anaerobic purification of the mutated proteins and characterization of the proteins using biochemical and spectroscopic methods. Applicants should have a Ph.D., at least 2 years of postdoctoral experience and publication in the area of mutant construction, anaerobic purification and characterization of mutant protein. The successful applicant must also have experience with *Azotobacter* genetic, fermentation technology, recombinant DNA technology, and protein chemistry and must have demonstrated independence. Deadline for application is 14 March 1992.

Please send curriculum vitae and three letters of reference to:

**Dr. Barbara K. Burgess
Department of Molecular Biology and Biochemistry
University of California, Irvine
Irvine, CA 92717**

UCI is an Affirmative Action/Equal Opportunity Employer. The department encourages female and minority applicants.

BIOLOGIST

Candidates with a background in immunology, molecular biology, or infectious disease investigation are sought for a position in the Immunology Branch, (J. S. McDougal, M.D., Chief), Division of HIV-AIDS, National Centers for Infectious Disease, Centers for Disease Control (CDC). The branch conducts laboratory-based research (basic, applied, clinical, and epidemiologic) on the effects of HIV on the immune system and the response of the immune system to HIV infection. Ph.D. or M.D. preferred. Salary is \$46,210 to \$70,987. Submit curriculum vitae to: **Ms. Janie Oddy, Centers for Disease Control, Personnel Management Office, Atlanta, GA 30333. CDC is an Equal Opportunity Employer and provides a smoke-free environment.** Applications must be received by 14 March 1992.

TENURE TRACK POSITION

The Department of Physiology is seeking to recruit an outstanding individual for a tenure track position preferably at the entry level of Assistant Professor. Applicants must have demonstrated abilities and interests in areas of cardiovascular research including any of the following: development or adaptation of cardiac and vascular muscle; molecular biology of muscle proteins; signal transduction processes; and biochemical regulation of muscle function. Successful candidates are expected to have a Ph.D. or M.D. with post-doctoral experience and should provide evidence that they can pursue a vigorous independent research program and participate in an active teaching program in the cardiovascular field.

Resources and an excellent environment exist for developing an academic career within an interactive community. Interested scientists should mail their curriculum vitae, a statement of current interests and future research plans, relevant reprints or preprints, and arrange to have at least three letters of reference sent to:

Julio Vergara, Ph.D.
Chair, Search Committee
Department of Physiology
UCLA School of Medicine
Los Angeles, CA 90024-1751

The period of application closes May 1, 1992. The University of California is an Equal Opportunity/Affirmative Action Employer.

Research Associate/ Senior Research Associate

Genentech, a leader in the biotechnology industry, has an exceptional opportunity for an RA/SRA to assist in the start-up of a new group within our Manufacturing department.

You will focus on supporting the recovery and pharmaceutical manufacturing of marketed products. Skills should include protein biochemistry methodology, electrophoresis, cell extraction methods, chromatography optimization and protein characterization.

Qualified candidates must have a BS/MS in Biochemistry, Protein Chemistry or equivalent, a background in pharmaceutical research and experience with protein biochemistry methodology and process optimization techniques.

Our progressive company offers an extensive benefits package which includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities and free health club membership. Learn more by sending your resume to Genentech, Inc., Human Resources Dept. GL/DG, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity.

Genentech, Inc.

THE ROCKEFELLER UNIVERSITY PHYSICIAN INVESTIGATORS

The Clinical Research Center at Rockefeller University is seeking M.D. or M.D./Ph.D. Physician Investigators with a primary commitment to patient oriented research. The clinical research center comprises a 30-bed inpatient unit, an 8 room outpatient unit, a well-equipped metabolic kitchen and ancillary facilities, all within a Hospital building on the 15-acre campus of the Rockefeller University in New York City. This Hospital provides an unequalled opportunity for intensive clinical investigation, devoid of any clinical responsibilities other than those required for research subjects. Applications are now being considered from licensed physicians for appointments as early as July of this year from the postdoctoral through junior faculty levels.

Please send Curriculum Vitae and a letter describing clinical investigative interests to:

**The Office of the
Program Director,
Clinical Research Center,
Hospital of the
Rockefeller University
Box 46
1230 York Avenue
New York, NY 10021**



The Rockefeller University is an equal opportunity employer and has an affirmative action program to increase the employment of women and members of protected groups at all job levels.

THE ROCKEFELLER UNIVERSITY

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN FACULTY POSITION DIRECTOR OF M.D./Ph.D. PROGRAM

The University of Illinois College of Medicine at Urbana-Champaign and the Graduate College at Urbana-Champaign seek a member of faculty to direct an innovative combined degree program called the Medical Scholars Program (MSP). Currently 140 students are enrolled in the program studying for an M.D. and another degree, primarily the Ph.D., in one of forty different disciplines in the biological sciences, physical and engineering sciences, social and behavioral sciences, the humanities, and law. The program has an excellent administrative support staff.

Applicants should have outstanding academic qualifications in research with teaching experience, preferably in a dual degree program. They should have earned either an M.D. or a Ph.D., preferably both. The successful candidate will be expected to maintain an active research program, participate in teaching, provide leadership for the MSP, and serve as a role model for academic excellence. The position carries a tenured appointment in one of the departments of the College of Medicine and a joint appointment in one of the Ph.D. granting departments of the University of Illinois Graduate College at Urbana-Champaign. The academic discipline is open. Clinical practice opportunities can be negotiated if desired with one of the affiliated teaching clinics or hospitals. Starting date and salary are negotiable.

For full consideration, letter of application, curriculum vitae, and list of five references should be received by 1 April 1992. Please send to: **Michael J. Ellis, Ph.D., Chair, Search Committee for Director of the Medical Scholars Program, University of Illinois College of Medicine at Urbana-Champaign, 190 Medical Sciences Building, 506 South Mathews, Urbana, IL 61801. Telephone: 217-333-2131. FAX: 217-333-8868.** Applications will be treated confidentially.

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



Experimental Toxicology

Postdoctoral Scientist

We Set A High Value On Research Talent

CIBA-GEIGY Pharmaceuticals Division, headquartered on 100 acres in Summit, New Jersey, invests over \$1 million a day in the research and development of innovative pharmaceutical products. Our substantial commitment has helped us gain worldwide acceptance of our therapeutic discoveries, and has afforded our research staff an abundance of challenging projects.

As part of our mechanistic-based, highly-motivated research team, the selected Scientist will apply molecular approaches to the study of mechanisms of drug-induced adverse reactions. You will also be encouraged to participate in internal and external scientific forums and present and publish your research. Successful Scientists may participate in a number of multidisciplinary projects that include: *in vitro* and *in vivo* target-organ toxicity screening; investigative/mechanistic studies; animal alternatives; and new technologies for toxicologic research.

To qualify, candidates must have a PhD in Toxicology or a related field. Experience with molecular biology techniques, *in vitro* systems for xenobiotic metabolism, or studies focused on responses to chemical agents at subcellular/molecular levels is a valued asset.

CIBA-GEIGY offers a competitive salary, comprehensive benefits and an environment conducive to professional development. Please send your resume with salary requirements to: **Staffing Center, Dept POST, CIBA-GEIGY Corporation, Pharmaceuticals Division, 556 Morris Avenue, Summit, NJ 07901.** We Are An Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY

Leukocyte Biologist

Amgen, an innovative leader in the discovery, development and marketing of human therapeutics through applied biotechnology, has immediate opportunities for research scientists in Inflammation Research.

The successful candidate will develop new projects and expand existing projects in the discovery and characterization of molecules involved in leukocyte trafficking. Experience with cellular adhesion molecules, *in vitro* assays and monoclonal antibodies is essential.

Qualified candidates should have a Ph.D. in Cellular Biology or a related discipline and a minimum of two years relevant post-doctoral experience.

Amgen offers a stimulating and challenging environment on the leading edge of biotechnology as well as an excellent compensation and benefits package. If you have the necessary skills and qualifications and would like to be a part of a company that places a high priority on its human resources, please send your resume, in confidence, to: **Amgen Inc., Staffing Department, Code S-1072, Amgen Center, Thousand Oaks, CA 91320-1789.** Amgen is an equal opportunity employer.

AMGEN®

Principals only, please

SCIENTISTS

Cadus Pharmaceutical Corp., a new, New York City-based bio-pharmaceutical company, is seeking a special group of scientists dedicated to drug discovery and development. The Company's scientists will utilize a new generation of technological tools to identify novel therapeutic agents whose mode of action is aimed at specific Signal Transduction and Transcriptional pathways. Such agents are being sought for the treatment of several major diseases. Cadus' scientists will be involved in an interactive research program with many scientists from the academic community.

MEDICINAL CHEMIST

We need a Ph.D. with several years of practical experience in analytical and preparative chemistry of low molecular weight compounds.

YEAST MOLECULAR BIOLOGIST

A Ph.D. with 3-4 years post-doctoral experience in cloning and gene expression is needed. Previous experience in receptor/ligand interactions of the mating type system would be a real bonus.

MOLECULAR/CELLULAR BIOLOGIST

A Ph.D. with 3-4 years post-doctoral experience characterizing mammalian receptor/ligand interactions, especially with members of the β -adrenergic and serotonin receptor family is needed.

Cadus Pharmaceutical Corp. offers competitive salaries and benefits with the opportunity to work in a highly motivated and interactive environment. Please submit your curriculum vitae with a list of three references to: **Dr. Dana M. Fowlkes, Director of Research, Cadus Pharmaceutical Corp., 7th Floor, 180 Varick Street, New York, NY 10014.**

Cadus

Equal Opportunity Employer

TargeTech, Inc. is a research stage biopharmaceutical company pursuing a novel non-retroviral technology for gene therapy and treatment of selected cancers and viral diseases. This is an exceptional opportunity for highly motivated, innovative scientists with the desire to be an integral member of a multidisciplinary team in our start-up, entrepreneurial environment.

BS/MS Organic Chemists

We seek bio-organic chemists to participate in the preparation and characterization of pharmaceuticals for treatment of genetic disorders, cancer and viral diseases by targeted delivery. Chemists should be experienced in synthetic techniques using both organic and aqueous media.

Ph.D. Molecular Virologists

We seek scientists with demonstrated expertise using molecular approaches in the study of animal viruses to develop antiviral therapy programs and research programs with the aim of manipulating virus-cell interactions. The individual should have experience working with live virus or with animal models of virus infection.

Ph.D. Cell/Receptor Biologist

We seek a scientist with experience in general cell biology and receptor-mediated endocytosis. Individual will have responsibility to establish a program that will expand our novel receptor-mediated system and improve delivery of DNA.

BS/MS Scientists Cell/Molecular Biology

We seek scientists who wish to participate as members of interactive teams. Cell biologists should be familiar with a range of cell biology/biochemistry methods. Molecular biologists should have proven skills in DNA/RNA isolation, Northern/Southern blotting, plasmid preps, PCR, etc. TargeTech, Inc. is committed to providing a nurturing environment for creative, highly motivated scientists by offering competitive salaries, a comprehensive benefits package and equity participation in the company. Submit resumes to: **TargeTech, Inc., Human Resources, 290 Pratt Street, Meriden, CT 06450.** We are an equal opportunity employer.

TARGETECH INC.

Scientist Toxicology

Genentech, a leader in the biotechnology industry and headquartered in South San Francisco, has the following opportunities within our Toxicology department.

Primarily responsible for the design, conduct and scientific evaluation of Safety Assessment Studies, you will independently prepare comprehensive preclinical safety assessments in support of U.S. and international marketing applications. Acting as the Safety Evaluation Rep to one or more project teams, you will interact with other professionals and provide expertise on all relevant safety issues as well as play a key role in developing our in-house testing capability as the Toxicology department expands.

Requires a PhD and postdoctoral fellowship, including 1+ years of industrial experience or a PhD and 5+ years of industrial experience. Board Certification in Toxicology is also desirable.

Our progressive company offers an extensive benefits package which includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities and free health club membership. For immediate consideration, send your resume to Genentech, Inc., Human Resources Dept. NS/GM, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity.

Genentech, Inc.

ZYMOGENETICS, INC., a Seattle-based biotechnology company making important strides in the areas of diabetes research, coagulation disorders, and tissue repair has a challenging opportunity available for a:

SCIENTIST PROTEIN CHEMISTRY

Responsibilities will include purification and characterization of proteins from natural and recombinant sources, participation in identification of new product opportunities in the areas of inflammation, hemostasis or wound healing, and interaction with the multidisciplinary team of scientists at ZymoGenetics.

Qualified applicants should possess a PhD and have 2 + years post doctoral work in the fields of protein chemistry or cell biology. Preference will be given to candidates with expertise in the areas of thrombosis, fibrinolysis or vascular biology. The successful candidate should have good communication skills and a record of publication in protein chemistry or biochemistry.

ZymoGenetics offers intellectual challenge, state-of-the-art facilities and an excellent benefits package. Interested applicants may send their CV/resume to: **ZymoGenetics, Inc., Attn: Human Resources, #14N391, 4225 Roosevelt Way NE, Seattle, WA 98105.**

ZYMOGENETICS

A subsidiary of Novo Nordisk A/S

ZymoGenetics is an equal opportunity employer and encourages applications from women and minorities.

• SCIENTISTS •

Athena Neurosciences, Inc. is a company committed to the discovery, development and marketing of products to be primarily used by neurologists for the treatment and diagnosis of central nervous system disorders. Our primary research efforts focus on developing techniques to diagnose and treat Alzheimer's disease, stroke and multiple sclerosis.

Scientist • Transgenic Group

As the group leader, you will develop and analyze models of various aspects of Alzheimer's Disease. Includes validating models for use as drug development tools. Requires a Ph.D. and at least four years' related postgraduate experience.

Scientist • Immunochemistry

You will oversee characterization, purification and immunoassay development of polyclonal and monoclonal antibodies to be utilized by the Company's diagnostic and therapeutic programs. Requires a related degree and at least three years' immunochemistry/immunoassay design experience. A Ph.D. is preferred as is pharmaceutical/biotechnology company experience.

Scientist • Enzymology

You will use biochemical, immunochemical and enzymological techniques to isolate and characterize enzymes and proteins relevant to amyloid formation, from cell cultures and primate tissue. Requires a Ph.D., two years' experience and a broad background in protein chemistry or enzyme characterization.

Scientist • Pharmacology

A pharmacologist is needed to evaluate potential therapeutics for neurodegenerative diseases including stroke, Alzheimer's disease and multiple sclerosis. The ideal candidate must have experience in animal models of CNS disorders and in evaluating the effects of drugs on behavior. Expertise in statistical analysis of data is highly desirable. The successful individual must be prepared to work with a highly interactive research team. 1-2 years of pharmaceutical/biotechnology experience is preferred.

*We offer an innovative scientific environment with competitive salaries and benefits. Reference job title when sending your CV: **Athena Neurosciences, Inc., 800F Gateway Boulevard, South San Francisco, CA 94080, Attn: Human Resources. EOE.***

athena neurosciences



IMAGING IN OPHTHALMOLOGY



June 26-27, 1992 • San Antonio, Texas

A national meeting for Ophthalmologists and Vision Researchers will be held on the occasion of the opening of the new Eye Research Laboratories and Imaging Center at The University of Texas Health Science Center at San Antonio, sponsored by the Department of Ophthalmology, in cooperation with the National Eye Institute (NIH) and Research to Prevent Blindness. The latest developments in optical, non-optical and computer-enhanced imaging of the visual system will be presented.

Participants are invited to submit a poster by March 16, 1992. Request registration and poster entry forms by sending this announcement, or a copy of it, with name and address to:

Continuing Medical Education
UTHSCSA
7703 Floyd Curl Drive
San Antonio, TX 78284-7980

Name: _____

Address: _____

Street

City _____ State _____ Zip Code _____

Calendar of Upcoming Meetings

SCIENCE will be distributed to scientists attending the following meetings:

Society of Toxicology

23 to 27 February 1992, Seattle
Issue date: 14 February 1992

The Pittsburgh Conference

3 to 9 March 1992, New Orleans
Issue date: 21 February 1992

Women In Science

Special Issue of SCIENCE
Issue date: 13 March 1992

FASEB

5 to 10 April 1992, Anaheim
Issue date: 27 March 1992

Your classified ad will enjoy
BONUS DISTRIBUTION
at these events.

Deadline for line classified ads:
15 days prior to issue date at 10:00 a.m.
Call for display ad deadlines.

SCIENCE Classified Advertising
Telephone: 202-326-6555
FAX: 202-682-0816

POSITIONS OPEN

University of Wisconsin School of Medicine. **ASSISTANT SCIENTIST: BIOCHEMISTRY.** Position in pancreatic islet research. Requires experience in recombinant DNA methodology. Please send curriculum vitae and names of references to: **Dr. Michael J. MacDonald, University of Wisconsin Medical School, Room 3459, 1300 University Avenue, Madison, WI 53706. Telephone: 608-262-1195.**

The University of Wisconsin is an Equal Opportunity Employer.

MEDICAL ONCOLOGIST/HEMATOLOGIST.

Outstanding opportunity for a well-trained clinical investigator to join the NIH-ACS-supported Human Immunology and Cancer Program in the Department of Medicine, University of Tennessee Graduate School of Medicine. Major responsibilities include active participation in patient care with research emphasis on monoclonal Ig-associated human diseases (multiple myeloma, lymphoma and related diseases) and especially amyloidosis. The successful candidate will work in well-equipped, state-of-the-art basic and clinical research facilities including hybridoma/Mab, flow cytometry, protein and peptide chemistry, immunochemistry, molecular biology, and computer laboratories. Excellent patient care services include a special dysproteinemia clinic, clinical research nurse support and advanced imaging capabilities. Board-certified/Board-eligible hematology/oncology and eligibility for state licensure required. Position requires a minimum of 3 to 5 years of postdoctoral clinical and research experience and ability to conduct innovative research involving molecular/cellular immunology. Tenure-track position available immediately. Excellent compensation (including fringe benefits) and academic rank commensurate with education and experience. The Knoxville area offers the scientific resources of the University of Tennessee and the Oak Ridge National Laboratory; recreational opportunities provided by the surrounding Great Smoky and Cumberland Mountains and extensive TVA lake system; and cultural amenities including a symphony and chamber orchestra, major fine arts museum, opera, and theater. Letter of application, curriculum vitae, and names and addresses of three reference sources should be sent to: **Alan Solomon, M.D., Professor of Medicine and Head Human Immunology and Cancer Program, University of Tennessee Graduate School of Medicine (UTGSM), 1924 Alcoa Highway, Knoxville, TN 37920. UTGSM is an Affirmative Action/Title IX/Section 504/ADA Employer.**

PRODUCT MANAGER

Manage and advance current instrument products. Background: Ph.D. in sciences with 3 years of product, instrument Experience.

PRODUCT DEVELOPMENT MANAGER

A biotechnologist to define the next generation of products. Experience in biotechnical instrumentation, DNA/antibody applications.

PRINCIPAL ENGINEER

An imaging technical expert, acting as a technical leader defining biomedical applications. Preferred background is a Ph.D. in biomedical image processing.

EAST COAST TECHNICAL SALES REPRESENTATIVE

Experience in image processing for the life sciences. Proficient with Macintosh computers, video cameras and light microscopes. Travel required.

TECHNICAL APPLICATIONS SPECIALIST

Experienced in image processing, light microscopy and Macintosh computers. Involves system demonstrations, publications and sales support. Travel required.

All replies to: **BDS Department R, 4617 Winthrop Street, Pittsburgh, PA 15213.**

University of Utah Department of Neurology seeking **M.D. NEUROSCIENTIST** with demonstrated ability in area of receptor channel physiology. Individual should have excellent qualifications in clinical neurology and teaching, and be Board-certified in neurology. Contact: **Richard Baringer, M.D., telephone: 801-581-4283. The University of Utah is an Equal Opportunity Employer.** Closing date 15 March 1992, or until qualified candidate is identified.

POSITIONS OPEN

COMPUTATIONAL BIOLOGY POSITION AT CRAY RESEARCH

Cray Research is looking for a computational biologist skilled in the area of molecular biology (genetic analysis, sequence comparison, protein folding and related topics) for scientific and technical support of the worldwide marketing of Cray Research supercomputers in the chemical, pharmaceutical and medical industries. The position requires a Ph.D., knowledge of C and FORTRAN, experience using Cray supercomputers running UNICOS, and excellent verbal and written communication skills. Experience is desired in methods and algorithm development; programming, optimizing and testing large-scale programs; solving R&D problems with computational techniques. Industrial or post-doctoral experience is also desirable. Cray Research rewards exceptional talent with an excellent compensation plan that includes profit sharing and a highly competitive benefit package. For confidential consideration, please send your résumé to: **Krystal Brandes, Cray Research, Inc., 655-A, Lone Oak Drive, Eagan, MN 55121-1560. Cray Research, Inc., is an Equal Opportunity Employer, M/F/H/V.**



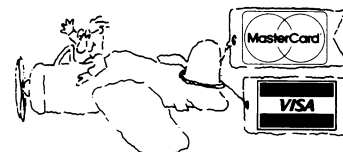
IMMUNOLOGIST TO ASSIST DEVELOPMENT OF OCULAR IMMUNOLOGY LABORATORY. The Department of Ophthalmology, University of British Columbia (UBC), seeks a full-time Ph.D. immunologist to work with other clinical services in the development of treatment programs for AIDS, uveitis, scleritis, orbital inflammatory disorders, corneal and external disease. Starting 1 July 1992. The position is subject to final budgetary approval. Superior molecular biology skills are essential. Experience in the planning and implementation of new programs an asset. **ASSISTANT PROFESSOR** level. Salary is commensurate with experience and qualifications.

UBC encourages qualified women and minority applicants. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Apply, sending curriculum vitae and the names of three referees by 30 April 1992 to: **Dr. J. Rootman, Head, Department of Ophthalmology, 2550 Willow Street, Vancouver, B.C., Canada V5Z 3N9.**

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CAREER OPPORTUNITIES IN OLIGONUCLEOTIDE THERAPEUTICS

ISIS Pharmaceuticals, located in Carlsbad, CA (San Diego County), is a pharmaceutical company focused on antisense oligonucleotide therapeutics. ISIS has innovative research programs, strong funding, a world-class scientific advisory board, excellent facilities and strong academic ties which make ISIS an exciting opportunity for outstanding individuals. Present opening is:

Ph.D. Phospholipid Biochemist/Biophysicist

We are seeking a Ph.D. scientist to develop and implement a research program in the interaction of oligonucleotides and novel oligonucleotide analogs with biological membranes and artificial membrane model systems. The successful candidate would work closely with medicinal chemists and cellular biologists to study the mechanisms by which oligonucleotides and their analogs interact with biological membranes and aid in the design of novel oligonucleotides. At least 2 years' postdoctoral experience in lipid biochemistry and/or biophysical techniques required. Experience in membrane transport processes or cell biology of membrane topology desired. **Position code 104.**

ISIS Pharmaceuticals offers a competitive salary, benefits, and substantial equity participation. Our new facility is located in San Diego County near the University of California, San Diego, and other major scientific centers. Please submit a cover letter, which clearly specifies position code, cv, reprints of relevant publications, and names and telephone numbers of references to: **Ms. Linda Kopps, ISIS Pharmaceuticals, 2280 Faraday Avenue, Carlsbad, CA 92008.** An Equal Opportunity Employer.

ISIS PHARMACEUTICALS



CAREER OPPORTUNITIES FOR SCIENTISTS IN SAN DIEGO

ALLIANCE PHARMACEUTICAL CORP., is a leader in the development of proprietary pharmaceutical products based upon perfluorocarbon and emulsion technologies. The Company's efforts focus on two primary areas: diagnostic contrast agents for use with major imaging modalities to aid in the early diagnosis of certain cancers and other pathological conditions; and oxygen carriers for use as a temporary red blood cell substitute and as adjunctive treatments of various cardiovascular, cancer and respiratory conditions. We are currently expanding operations in several primary research and development areas and are seeking qualified individuals for the following positions:

DIRECTOR OF CARDIOVASCULAR PHARMACOLOGY

Candidates will possess a Doctorate in Physiology, Pharmacology or a related discipline with postdoctoral experience and with strong background in cardiovascular research pertaining primarily to myocardial ischemia and cardioplegia. Experience in the development of parenteral pharmaceuticals is desirable. Candidates with management experience preferred.

CELL BIOLOGY - PRINCIPAL SCIENTIST

Candidates will possess a Doctorate and will have postdoctoral experience in cell biology or a related discipline. This individual will organize and staff a research effort focused on the interaction of phospholipid emulsions with cellular components of the blood and the reticuloendothelial system. Candidates should be familiar with cell culture techniques and isolation of macrophages and blood leukocytes.

BIOCHEMISTRY - PRINCIPAL SCIENTIST

Candidates will possess a Doctorate and will have post doctoral experience in Biochemistry or a related discipline. This individual will organize and staff a research effort focused on the biochemical interaction of phospholipids and artificial surfactants with plasma opsonins. Candidate should also be familiar with plasma assay procedures for cytokines and related factors.

TOXICOLOGY - RESEARCH SCIENTIST

Candidates will possess a Doctorate with postdoctoral experience in toxicology or a related discipline. Familiarity with preclinical safety strategies and GLP procedures desirable but not required. Responsibilities will include design, oversight and reporting of both regulatory and investigative toxicology studies. A strong background in experimental toxicology and excellent writing skills are desirable.

PHARMACOLOGY - ASSOCIATE SCIENTIST

Candidates will possess a Bachelor's or Master's degree in Biology or a related discipline with postgraduate experience in cardiovascular research using IN VIVO and/or IN VITRO techniques (2 positions available).

ALLIANCE PHARMACEUTICAL CORP., is located in North Coastal San Diego near the University of California at San Diego and the Scripps Research Institute. Our attractive and expanding research facility and corporate headquarters are located in a biomedical industrial campus setting. Our location affords outstanding lifestyle opportunities while providing extensive state-of-the-art experimental research collaborative opportunities. The available positions include competitive compensation, benefits and relocation packages. For further information, send resumes with salary history to, **Carole McWilson, Director of Human Resources, Alliance Pharmaceutical Corp., 3040 Science Park Road, San Diego, CA 92121.** Equal Opportunity Employer.

POSITIONS OPEN

INDUSTRY POSITIONS IN BIOTECHNOLOGY

Join our team of professionals to support our growing businesses. Microbiological Associates is the world leader in biopharmaceutical safety evaluation. Opportunities are available for microbiologists and virologists with 3 to 5 years of postdoctoral experience. Familiarity with *Mycoplasma* and/or GPL/cGMP environment an asset. These **STUDY DIRECTOR** positions will be responsible for supervising laboratory staff, communication with clients, and the development of research programs. Our state-of-the-art facility is located in the Washington, D.C., suburbs. We offer a comprehensive salary and benefits package that includes relocation. Send curriculum vitae to: **Microbiological Associates, Inc., 9900 Blackwell Road, Rockville, MD 20850. FAX: 301-738-1036. Equal Opportunity Employer, M/F/H/V.**

MOLECULAR BIOLOGIST

Experience/interest in neuropharmacology for cloning of receptors/signal transducing molecules and generation of *in vivo* models for analysis of functional significance. Postdoctoral/Research Associate/Instructor level in multidisciplinary laboratory. Please send curriculum vitae and bibliography to: **Claes Wahlestedt, Ph.D., Division of Neurobiology, Cornell University Medical College, 411 East 69th Street—KB410, New York, NY 10021. FAX: 212-988-3672. Equal Opportunity Employer/Affirmative Action, M/F/H/V.**



**Agricultural Research Service
United States
Department of
Agriculture**

RESEARCH SCIENTIST

Grand Forks Human Nutrition Research Center, Grand Forks, North Dakota. The USDA, Agricultural Research Service, is seeking a person with a Ph.D. or M.D. to fill a lead scientist position with research leadership opportunities at the Human Nutrition Research Center located in Grand Forks, North Dakota, where a multidisciplinary research approach is used to develop recommended intakes of mineral element nutrients for humans. The research assignment is to study factors affecting the bioavailability, retention and utilization of trace elements from food, and homeostatic regulation of trace element metabolism, thus ascertaining how these factors affect human nutrient requirements. Research will emphasize the use of stable and radioisotope methods to study trace element metabolism in human volunteers in an established, modern and well-equipped laboratory. *Must be U.S. citizen.* Salary is commensurate with experience, GS-12-GM-14 (\$38,861 to \$65,527). For information on research, contact: **Dr. Forrest H. Nielsen at 701-795-8456.** For application procedures/forms contact: **Julia A. Murchison, USDA, ARS, Personnel Division, 6305 Ivy Lane, Suite 318, Greenbelt, MD 20770-1435. Telephone: 301-344-3138.** Applications in response to this advertisement should be marked. **ARS-D-2-W-0020.** Applications must be received by 20 April 1992. *ARS is an Equal Opportunity Employer; women and minorities are encouraged to apply.*

SENIOR RESEARCH CHEMIST/RESEARCH CHEMIST. Princeton University's Department of Chemistry welcomes applications to develop and lead a research program in global and regional environmental impacts of industrial chemicals and processes. Focus is on sources, accumulation, transport and effects of toxic materials, interactions with natural and anthropogenic chemical cycles, and strategies for management. Research will be conducted in conjunction with the Center for Energy and Environmental Studies. Candidate must have a Ph.D. in chemistry or related field, an established track record of outstanding research in the areas of focus and demonstrated success in obtaining research funding. Salary and rank commensurate with experience and background. Please submit curriculum vitae and three letters of recommendation to:

**Thomas G. Spiro
Eugene Higgins Professor of Chemistry
c/o Nancy Duprey Koehler
H-102 Engineering Quadrangle
Princeton University
Princeton, NJ 08544**

Princeton is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

The Departments of Medicine and Microbiology and Immunology at Loyola University Medical Center are seeking a Ph.D. **IMMUNOLOGIST** to assist in establishing a basic research program in the immunobiology of cardiac transplantation. The successful candidate will be granted a salaried full-time tenure-track faculty position at a level commensurate with qualifications and experience. Please submit curriculum vitae, two copies of relevant research publications, description of research goals, and three letters of recommendation to:

**Maria Rosa Costanzo-Nordin, M.D.
Medical Director, Cardiac Transplant Program
Loyola University Medical Center
Maywood, IL 60153**

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STAFF SCIENTIST, ANALYTICAL CHEMIST.

ALZA, a manufacturer of innovative drug delivery systems, currently requires a staff research scientist for its biomedical sciences group. This position requires a Ph.D. in biochemistry or biophysics. The successful candidate will be required to perform and develop analytical methods specifically for proteins and peptides. Additionally, the candidate will perform radio-iodination of proteins as well as ligand receptor binding assays and develop crude membrane receptor preparations from tissue sources. Requires the ability to supervise three chemists. A minimum of 2 years of directly related experience at either the graduate academic and/or industrial level is essential with specific experience in: HPLC, CE, RIA, ELISA, RRA, circular dichroic spectroscopy, analytical ultracentrifugation. Requires experience in method development for protein analysis. A background in statistical procedures for assay validation and curve fitting is also required. Excellent communication skills—speaking, listening, reading and writing—are required. The salary range for this position will be \$49,000 to \$54,000, depending upon background and experience. Résumés must be attended by three written letters of reference. Responses must be postmarked no later than 15 March 1992 to be considered. *If offered employment, you must show you have the legal right to work in the United States.* For immediate consideration, please send your résumé to: **ALZA, Human Resources, #A, 950 Page Mill Road, P.O. Box 10950, Palo Alto, CA 94303-0802. We are pleased to be an Equal Opportunity Employer.**

TRANSGENIC MOUSE TECHNOLOGIST

A position available in transgenic mouse technology at The University of Chicago. Responsibilities include: microinjection of DNA into fertilized mouse eggs, surgical implantation of eggs into pseudopregnant mice, tail/ear sampling for the presence of the transgene, transgenic lineage maintenance, embryo freezing of the transgenic lines, embryo rederivation, position to grow with new techniques and development in the field. B.S. in biology, animal health technology or related field. Minimum 2-year commitment. Desire to work with mice is essential. Previous lab experience desirable, but not essential. Interested individuals should submit a résumé, a letter of intent, and a list of three references to: **Linda Degenstein, The University of Chicago, 5841 South Maryland, MC1028, Room N331, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.**

MEETINGS

1ST ANNUAL BRISTOL-MYERS SQUIBB SYMPOSIUM ON CARDIOVASCULAR RESEARCH NITRIC OXIDE AND VASCULAR PROTECTION

Chairmen—**P. M. Vanhoutte, M.D., Ph.D.** and **T. F. Lüscher, M.D.,** 5, 6, and 7 November 1992, Houston, Texas. Call for abstracts (Deadline: postmarked 15 June 1992). Please contact:

**Dr. P. M. Vanhoutte
Baylor College of Medicine
Center for Experimental Therapeutics
One Baylor Plaza
Room 802E
Houston, TX 77030
Telephone: 713-798-6453
FAX: 713-799-2469**

POSITIONS OPEN

ZOOLOGIST. The Department of Invertebrate Zoology, National Museum of Natural History, Smithsonian Institution, seeks candidates for a zoologist, GS-11/12/13 (\$32,423 to \$60,071 per annum). This may be a term position not to exceed 4 years' duration. The position entails performing collections-oriented research in the systematics and evolutionary biology of the Crustacea and professional curating of the pertinent collections. Candidates will be evaluated according to the quality, scope, progressiveness, and recency of research accomplishments (publications) and academic study; museum curatorial and field experience; relation of the candidate's research to present departmental collections and research strengths and needs; and the potential for research interaction with other National Museum of Natural History staff and outside colleagues. Submit by 15 March 1992, SF-171 (Personal Qualifications Statement), curriculum vitae, copies of publications, and statement of long-term research goals to: **Vacancy Announcement #92-1000H, Smithsonian Institution, Office of Human Resources, Branch 1, P.O. Box 23762, Washington, DC 20262-3762. An Equal Opportunity Employer.**

COURSES AND TRAINING

M.S. IN BIOTECHNOLOGY. A 2-year graduate program in biotechnology. It includes extensive training in cell biology and recombinant DNA methodologies and either co-op experiences with industry or a thesis. Financial assistance is available. Please apply to:

**Program Director, Biotechnology
M303 Walters Life Sciences Building
The University of Tennessee
Knoxville, TN 37996-0830**

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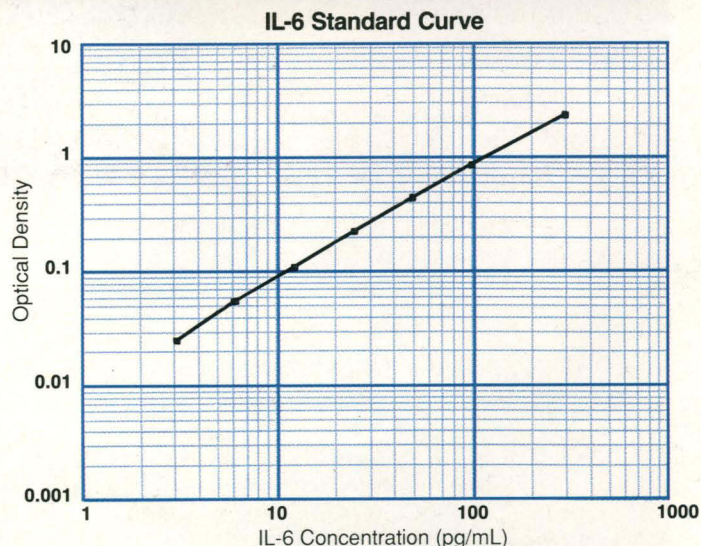
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In Japan contact:

Funakoshi Co., Ltd.
9-7, Hongo 2-Chome
Bunkyo-ku, Tokyo 113
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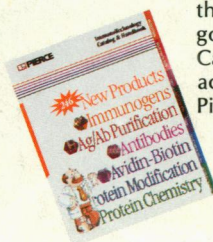
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