body is a monoclonal and is used to coat microtiter plates. The detection antibody is a monoclonal that is affinity-purified and conjugated to biotin. This allows the flexibility to use any enzyme, chemiluminescent, or fluorescent detection system for which avidin conjugates are available. Pairs are available for IL-1β, IL-2, IL-4, IL-6, IL-8, IL-10, IL-11, IL-12, IL-13, IL-15, MIF, MIP-1α, MIP-1β, RANTES, tumor necrosis factor-α, and transforming growth factor-β1. R&D Systems Europe. Circle 142.

A goat polyclonal antibody to vesicular acetylcholine transporter has been used for immunohistochemistry on rat and mouse tissue. The antibody labels cholinergic cell bodies in the septum and nucleus basalis as well as cholinergic fibers in the brainstem and spinal cord. Applications include Alzheimer’s, neuromuscular, and autonomic nervous system research. Chemicon International. Circle 143.

Rat EIA Kits
Enzyme immunoassay kits directed against rat antigens are simple to use, specific, and accurate. They offer nanogram and milliliter detection ranges. Kits are available directed against rat interleukin-8, transferrin, ferritin, prolactin, hemoglobin, albumin, α-1-AG and β2-microglobulin. Wako BioProducts. Circle 144.

Hybridoma Genotyping Primerset
The Hybridoma Genotyping (H-G) Primerset is a set of oligonucleotide primers for characterizing the genotype of mouse hybridomas. Using the H-G Primerset, the immunoglobulin gene sequence encoding the variable region of the mouse immunoglobulin (Ig) G1, 2a, 2b, 3, and IgM can be amplified by reverse transcriptase polymerase chain reaction and fingerprinted by restriction fragment length polymorphism (RFLP). The IgG RFLP fingerprint is an unequivocal method for identifying hybridoma clones. LabLogix. Circle 145.

Dual Pure Water System
The Water Prodigy II is a compact system for low-volume applications such as atomic absorption, ion chromatography, fluorescence analysis, and microbiological techniques. It makes use of carbon adsorption, reverse osmosis, deionization, and microfiltration to produce pure water. The unit provides both reverse osmosis-grade Type III and reagent-grade Type I water. As inlet tap water passes through the reverse osmosis membrane, it is stored in a 1.4 liter reservoir. The reverse osmosis-purified water is dispensed from the reservoir through a valve at a rate of 1300 ml/min and the Type I water is dispensed through a gun at a rate of 1100 ml/min. Once the reservoir is depleted, the dispensing rate is 200 ml/min for each. Labconco. Circle 146.

Halogen Moisture Analysis
A new high-speed Moisture Analysis System makes use of an advanced form of halogen drying technology. Major benefits include faster drying times than other moisture analysis systems, reduced risk of sample damage and the resulting repeat analyses, and greater drying control allowing for the use of an expanded range of drying methods. Mettler-Toledo. Circle 147.

Benchtop Coolers
Eppendorf IsoTherm Benchtop Coolers protect temperature-sensitive 1.5-, 1.7-, 2.0-, or 0.5-ml tube samples. Temperature can be maintained at 0°C for more than 6 hours or at −21°C for more than 3 hours at the laboratory bench without ice. The complete modular system consists of a 24-place transfer/storage rack with matching cold pack, and an insulated storage box with lid. The IsoRack transfer/storage rack is stackable and floats for thawing or incubating of samples. Brinkmann Instruments. Circle 148.

Literature
CD-CHROM is a comprehensive chromatography database in CD-ROM format. Researchers can access 106,000 chromatography abstracts using DOS, Macintosh, or Windows. Preston Publications. Circle 149.

NALGENE Non-Metallic Sanitary Processing Systems describes equipment that provides fluid mixing, storage, and transfer efficiency for the biotechnology, pharmaceutical manufacturing, chemical processing, electronics, food, beverage, and dairy processing industries. Nalge Nunc International. Circle 150.
FACULTY: NATURAL SCIENCES
ARIZONA INTERNATIONAL CAMPUS

Arizona International Campus of the University of Arizona (AIC) announces the following positions: Director of Natural Sciences. Duties include developing and teaching a course in general sciences, teaching and advising students in various fields of the natural sciences, and serving on university committees. Applicants should have a Ph.D. in a science discipline. Candidates who have experience in higher education administration and have demonstrated excellence in teaching and research are encouraged to apply. Application deadline is February 1, 1998. AIC is an equal opportunity/affirmative action employer and encourages applicants from women and minorities. To apply, submit a letter of interest, a curriculum vita, and three letters of reference to: Dr. A. M. Hakeem, Department of Natural Sciences, Arizona International Campus, 1100 E. University Blvd., Tucson, AZ 85719. Applications will be accepted until February 1, 1998.

SCIENCE Global Career Network: Eliminating barriers to global mobility

For GRANT display advertisements, turn to page 1760.
See SCIENCE Classified Ads on line at http://www.sciencemag.org

LINE CLASSIFIED ADVERTISEMENTS
How to Submit a Line Classified Ad: Submit double-spaced typewritten copy. Do not include any abbreviations. SCIENCE will edit and typeset ads according to SCIENCE guidelines. Include billing information and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Services. SCIENCE cannot provide proofs of typeset line ads. Line advertisements are not commissionable.

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Discounts: A 3% cash discount is granted to all prepaid ads.

Ads from Outside the U.S.: A discount of $30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Debbie Cummings. Telephone: (440) 1233 302067, FAX: (440) 1233 576206.

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SCIENCE reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

FACULTY OPENINGS
The Evergreen State College (TESC) seeks broadly trained FACULTY interested in teaching in a public, liberal arts institution emphasizing interdisciplinary study and team-teaching. Regular positions typically involve initial three-year term, and reappointment between special- ized and general education courses, and eligibility for permanent appointment after three to six years of full-time service. For more information, see http://www.tesc.edu/itc. Applications are due by February 10, 1997. TESC is an equal opportunity/affirmative action employer.

The Neurosciences Research Institute (NRI) and the University of Ottawa seek a basic neuroscience researcher for a tenure-track position in the area of neuroimmunology. The successful candidate will be expected to establish and maintain an active research program related to the development and application of advanced molecular and cellular techniques to understanding the role of the immune system in regulating brain function. This position will be located in the Ottawa Research Centre at the University of Ottawa. All qualified candidates are encouraged to apply. To arrange an interview, please submit a letter of application, a curriculum vita, and three letters of reference to: Dr. S. G. Bull, Director, The Neurosciences Research Institute, 1200 St. Laurent Drive, Ottawa, Canada K1H 8M5. Application deadline: December 1, 1996.

The University of Minnesota seeks a faculty position in the area of developmental and molecular biology. The successful candidate will be expected to field an active research program with emphasis on cell migration and signaling. This position will be located in the Department of Cell Biology and Development. All qualified candidates are encouraged to apply. To arrange an interview, please submit a letter of application, a curriculum vita, and three letters of reference to: Dr. S. G. Bull, Director, The Neurosciences Research Institute, 1200 St. Laurent Drive, Ottawa, Canada K1H 8M5. Application deadline: December 1, 1996.

The University of Ottawa seeks a faculty position in the area of developmental and molecular biology. The successful candidate will be expected to field an active research program with emphasis on cell migration and signaling. This position will be located in the Department of Cell Biology and Development. All qualified candidates are encouraged to apply. To arrange an interview, please submit a letter of application, a curriculum vita, and three letters of reference to: Dr. S. G. Bull, Director, The Neurosciences Research Institute, 1200 St. Laurent Drive, Ottawa, Canada K1H 8M5. Application deadline: December 1, 1996.

The University of Washington (UW) seeks an interdisciplinary faculty position in the areas of neuroimmunology and neuroendocrinology. The successful candidate will be expected to establish and maintain an active research program related to the development and application of advanced molecular and cellular techniques to understanding the role of the immune system and endocrine system in regulating brain function. The successful candidate will be expected to establish and maintain an active research program related to the development and application of advanced molecular and cellular techniques to understanding the role of the immune system in regulating brain function. This position will be located in the Department of Cell Biology and Development. All qualified candidates are encouraged to apply. To arrange an interview, please submit a letter of application, a curriculum vita, and three letters of reference to: Dr. S. G. Bull, Director, The Neurosciences Research Institute, 1200 St. Laurent Drive, Ottawa, Canada K1H 8M5. Application deadline: December 1, 1996.

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Enter a world of scientific discovery at Canji, Inc. a division of the Schering-Plough Research Institute. Using innovative gene therapies based on tumor suppressor genes and other cell-cycle regulators, our pioneering scientific team has developed therapeutic applications for the human tumor suppressor genes p53 and RB. Today, we’re continuing the tradition in the development of new potent weapons in the war against cancer. As we continue to make important breakthroughs in hyperproliferative research, we need more dedicated scientists to help us lead the way into the 21st century. Currently, we have the following exceptional career opportunities available at our Torrey Pines Science Park setting in San Diego, CA.

EXCITING New Opportunities in Gene Therapy

Senior Scientist, Immunology
Develop cytokine gene therapy through the establishment of a strong immunology function. Responsibilities include characterizing the immune response to recombinant adenoviral vectors and evaluating methods to minimize the immune response for gene delivery strategies. To qualify, you must be an experienced scientist with a PhD in Immunology or a related discipline and at least 3 years of relevant experience, including a background evaluating the immune response to viral antigens with in vivo and in vitro techniques. Solid understanding of cytokine biology and an interest in the application of cytokine gene therapy for the treatment of human diseases are essential.

Senior Scientist, Biochemistry
Conduct biochemical studies to help overcome obstacles to product candidate research. Studies will include delineating specific structure and biological protein function, and examining the mechanism of tumor suppression. To qualify, you must have a PhD in Biochemistry or a related discipline and 3-5 years’ experience, including lab supervision and hands-on experience in protein chemistry, enzyme kinetics and molecular biology methods related to protein function. Knowledge of biological and biochemical assay development, and phage systems desired.

Senior Scientist, Gene Delivery
Design and execute studies to evaluate in vivo gene transfer, expression and efficacy. Experiments will range from those focusing on developing methods optimizing gene transfer and expression to injured vessels in models of restenosis, to those characterizing systemic non-viral gene delivery and expression. To qualify, you must have a PhD in Pharmacology or a related discipline and 3-5 years of relevant experience. Strong research interests in gene delivery issues that limit in vivo gene therapy, experience with the design and execution of in vivo studies, and research interests in angiogenesis and vascular biology are required. Knowledge of methods to quantitate gene delivery and expression in vivo is desirable.

Postdoctoral Scientist, Cell Biology
Characterize gene transfer and expression on a cellular and molecular level. Responsibilities include describing the internalization, intracellular transport and nuclear translocation of gene delivery systems; characterizing the cellular response to expression of genes critical in cell cycle regulation; and conducting experiments to evaluate and optimize alternative gene delivery strategies. To qualify, you must have a PhD in Cell Biology, Molecular Biology, Biochemistry or a related discipline and an interest in gene therapy. Strong research interest in tumor suppressor genes and other regulators of the cell cycle is required. Experience with cell biology techniques is also essential. A background with fluorescence microscopy techniques is desirable.

Associate Scientist, Pharmacology
Execute in vivo experiments and analyze tissue samples to evaluate the effects of gene therapy. Responsibilities include refining procedures for tissue harvest and subsequent processing, and assisting in the design and execution of in vivo experiments to evaluate the therapeutic effects of tumor suppressor genes and other hyperproliferative diseases. To qualify, you must have a BS or MS in Pharmacology, Toxicology or a related discipline and 3-5 years of experience in biotechnology, including conducting analysis of tissue samples, histology, histochemistry and immunohistochemistry. An interest in image analysis and familiarity with computer-based quantitative analysis are highly desirable.

Assistant Scientist, Molecular Biology
As a molecular biologist for our non-viral gene delivery program, you will develop and test novel gene therapy vectors to treat cancer and other diseases. To qualify, you must have a BS or MS in Biochemistry or a related discipline and at least 3 years’ experience in molecular and cell biology. A strong background in molecular techniques (i.e., vector construction, cloning, PCR), mammalian expression systems, and analysis of recombinant proteins, cell biology and tissue culture is required. Gene therapy research experience in an industry setting is preferred.

In return for your expertise, we offer a highly competitive compensation package, excellent benefits, and a progressive environment that is conducive to professional advancement. For immediate consideration, mail/fax your resume indicating position of interest and salary requirements, to: Human Resources, Canji, Inc., 3030 Science Park Road, San Diego, CA 92121. Fax: (619) 597-0237. We are an equal opportunity employer.
OPENING THE DOORS TO MEDICAL KNOWLEDGE

That's been ICN Pharmaceuticals' mission for over three decades.

As a healthcare pioneer and leader, ICN has been committed to improving the quality of life for people around the globe.

That's why ICN created the International Virology Prize, awarding more than $300,000 over seven years to recognize top medical researchers for advancing the understanding, prevention, or treatment of viral diseases.

This year, we're proud to honor Dr. Stanley Prusiner of the University of California San Francisco.

Dr. Prusiner's discoveries revolutionized our understanding of the infectious agents behind degenerative diseases of the central nervous system and took us several giant steps closer to treating them effectively.

Thanks to professionals like Dr. Prusiner, ICN and others are able to make advances in medical treatment that enhance the lives of people around the world.

ICN Pharmaceuticals, Inc. & He who has health has hope. And he who has hope has everything.

VICE PROVOST FOR RESEARCH
OREGON STATE UNIVERSITY

Oregon State University invites applications and nominations for the position of Vice Provost for Research. This is a 12-month, 1.0 FTE appointment, with a collateral appointment at the rank of Professor in a department appropriate to the individual's background. Salary will be commensurate with experience and qualifications. The Vice Provost for Research is responsible for the oversight, coordination, and facilitation of all research activities at OSU, including sponsored research, various research centers and institutes, interdisciplinary research programs, and research of the Forest Research Laboratory, the Oregon Agricultural Experiment Station, the Sea Grant and Space Grant programs, and the Research Office. In addition, the Vice Provost for Research represents OSU to funding agencies and foundations, to regional and national research consortia, and to Federal and State legislators. The Vice Provost has administrative responsibility for the Research Office, institutional research funds, research centers and institutes, and the Technology Transfer and Trademark programs for OSU.

Oregon State University is a Land Grant, Sea Grant, and Space Grant university, and a Carnegie Class I Research University that receives approximately $135 million annually for sponsored research. We are seeking an individual who has a record of significant accomplishment in research, substantial experience in the administration of research programs, experience in dealing with funding agencies, and strong interpersonal skills. The individual must hold an earned doctorate and be tenurable within an academic unit of OSU. Experience dealing with Congress, familiarity with research compliance and intellectual property issues, a record of innovation and promotion of research programs, and a positive record in Affirmative Action are highly desirable. The full position description is available upon request.

Nominations should include name and address of the nominee and a letter addressing the qualifications of the nominee for this position. Applicants should submit a letter of interest and a resume along with names, addresses, phone numbers, and e-mail addresses of five references to:

G. Brent Dalrymple, Chair, Search Committee; Oregon State University; 104 Ocean Admin. Bldg.; Corvallis, OR 97331-5503; phone: (541) 737-3504; fax (541) 737-2064; email: kyates@oce.orst.edu

References will not be contacted without prior approval of the applicant. Nominations are due October 18, 1996. Applications are due November 8, 1996. This position is available January 1, 1997, but will remain open until filled. OSU is an AA/EEO employer and has a policy of being responsive to dual-career needs.

Targeted Genetics Corporation
Cell Culture Staff Scientist

Targeted Genetics Corporation is a biotechnology company developing integrated gene and cell therapies for the treatment of acquired and inherited diseases. Continued growth has created a new opportunity for a Staff Scientist in the Process Development group. The successful candidate will join a highly interactive group dedicated to the aggressive pursuit of research programs leading to therapeutic products.

We are looking for a cell culture scientist/engineer to develop production methods for gene therapy vectors. This position will effectively integrate cell culture and virology background with engineering and bioreactor experience to design scalable cGMP manufacturing processes. Applicants must have proven experience in the development and scale-up of processes for gene therapy vectors, recombinant therapeutics or vaccines in mammalian or insect cells.

Individual must be familiar with standard virological, molecular and biochemical techniques that are used for process development and validation. Knowledge of quality control, cGMP and regulatory issues is required. Applicants need strong communication skills and the ability to work as a member of a creative team. Supervisory experience is a plus.

To qualify candidates must have a Ph.D. in cell biology, virology, biochemistry or biochemical engineering and 3-5 years of relevant experience in an industrial setting. For consideration, please submit your C.V. and resume to:

Targeted Genetics Corporation
REF: CC1096
1100 Olive Way, Suite 100
Seattle, WA 98101
FAX (206)521-7872
email: Sackettp@targen.com
TGC is an equal opportunity employer.

Faculty Positions in Developmental Biology
Harvard Medical School
Beth Israel Hospital

The Molecular Medicine Unit of Beth Israel Hospital is seeking applications for tenure track positions at the Assistant Professor level. The successful candidate will hold the Ph.D. and/or M.D. degrees and will have completed a minimum of two years of postdoctoral training in molecular cell biology, physiology, or genetics. Applicants will be expected to establish a funded independent research program in the broad area of developmental biology. Generous start-up funds and some ongoing support will be provided. The Molecular Medicine Unit faculty currently investigate inductive signaling in early vertebrate development, protein translocation and targeting, signal transduction, and ion homeostasis. Candidates should send CVs and names of three references to:

Robert D. Rosenberg, M.D., Ph.D.
Faculty Search Committee
Molecular Medicine Unit
Beth Israel Hospital, RW663
330 Brookline Avenue
Boston, MA 02215

The Beth Israel Hospital is an Equal Opportunity employer.
Howard Hughes Medical Institute

Predoctoral Fellowships in Biological Sciences

1997 Competition
80 fellowships will be awarded by the Howard Hughes Medical Institute for study toward a Ph.D. or Sc.D. degree in the biological sciences listed below. Awards, based on an international competition, focus on research directed to understanding basic biological processes and disease mechanisms. Fellowships may be held at academic or research institutions with appropriate degree programs.

Fellowship Terms
- Full-time study toward the Ph.D. or Sc.D.
- Up to five years of support possible
- $15,000 annual stipend, effective June 1997
- $15,000 annual cost-of-education allowance, effective June 1997

Eligible Fields of Study

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Eligibility
- Beginning graduate study (prior study toward an M.P.H. or a medical degree does not rule out eligibility)
  - college seniors
  - first year graduate students
  - medical students and physicians (M.D., D.O., D.D.S., or D.V.M.) not past the first year of a Ph.D. or Sc.D. degree program
- Not in a funded M.D./Ph.D. program
- No citizenship requirements for application; U.S. citizens may study abroad, but others must study in the United States

Schedule
Application deadline: November 15, 1996
Awards announced: early April 1997

1997 Program Announcements, Eligibility Guidelines, and Applications
Hughes Fellowship Program
The Fellowship Office
National Research Council
2101 Constitution Avenue
Washington, DC 20418, United States of America
Telephone (202) 334-2872
Fax (202) 334-3419
E-mail <infofell@nas.edu>
http://www.nas.edu/fo/index.html

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
Our agricultural products are redefining biotechnology's limits on a daily basis.  

We're Ceregen.

As a subsidiary of the Fortune 100 Monsanto Corporation, Ceregen is a world leader in the discovery and development of agricultural products based on advanced chemistry and biotechnology. Our new strains of cotton, corn and soybeans are insect-proof, so they don't need harmful pesticides. And our professionals are playing a key role in their on-going product development and support, and in our future.

Biochemist/Enzymologist

In this post-doctoral position, you will put your interest in plant biotechnology to use as you solve challenging technical problems for a company noted for world-class biotechnology research programs.

We seek an independent, highly-motivated individual with a Ph. D. in Biochemistry and a proven track-record in enzymology, protein purification and assay development. You'll also need hands-on experience with various biochemical analyses, relevant techniques and bacterial expression systems. A knowledge of flavo-proteins and plant biochemistry is a plus.

There's only one thing more diverse than Monsanto's global business units—our talented group of professionals. To join them in a unique environment that's specifically designed for communication and innovation, send your resume to: Monsanto Company, 700 Chesterfield Parkway North, Mail Zone GG4J, St. Louis, MO 63198; Fax: 314-537-5567; E-mail: mnead@ccmail.monsanto.com. EEO/A Equal Opportunity Employer M/F/D/V.

Ceregen
Ingenuity in Agriculture

inflazyme

Inflazyme is a dynamic young biopharmaceutical company principally focused in the design and discovery of novel therapeutics for inflammatory diseases.

Regulatory Project Manager—Preclinical

We are currently seeking a proven leader with strong managerial and motivational skills to assume overall responsibility for new product development, review GLP preclinical studies to prepare summary documents in support of preclinical IND and NDA submission to the FDA, assist the laboratory staff to maintain QC, and respond to FDA requests concerning preclinical data.

Qualifications include a Ph.D. or similar degree in toxicology, pharmacology, or a related discipline, and at least 5 years of previous experience in the field.

We offer a highly competitive compensation and benefits package. Interested candidates should forward a resume with salary expectations to: Inflazyme Pharmaceuticals Ltd., Suite 460-999 West Broadway, Vancouver, BC, V5Z 1K5. Fax # (604) 733-5281.
The Science of Agricultural Genetics

Genome Research Opportunities

The Genome Research Group at Pioneer Hi-Bred International is assembling a database of corn ESTs that already contains more sequences than are available for other plants such as Arabidopsis or rice. With our Trait Utilization System, we have the ability to assess the function of any corn gene by rapidly identifying transposon insertion mutations. The intention is to expand on and utilize these resources to identify candidate genes for agronomically important quantitative traits that can be further manipulated in our germplasm collection. Several positions are open in this rapidly expanding group:

RESEARCH MANAGER
Array Technology (Job #GP-701)

This person will manage and develop applications for gene discovery and mutation screening in corn involving high-density arrays of bacterial colonies or DNA probes derived from a corn EST database. Extensive interaction with existing projects within Genome Research, other projects within Trait and Technology Development, and a Lab Automation group is envisaged. Responsibilities will also involve management and evaluation of collaborations with other companies. Strong interpersonal skills, enthusiasm and drive will be essential, as well as a solid background in molecular biology techniques and a demonstrated ability to implement and manage multiple projects involving large numbers of samples and interaction with collaborators. Other requirements include: experience with supervising research staff, setting research goals/timelines, managing budgets, and making purchase decisions on high-cost equipment; familiarity with molecular biology data-bases and software; and an ability to communicate not only with molecular biologists, but also lab automation personnel and external collaborators in other disciplines. Familiarity with maize genetics and/or direct experience with array technologies or high-throughput liquid-handling methods would be highly desirable. Candidates should have a Ph.D. in Biological Sciences with 7+ years of laboratory experience in molecular biology, and at least 3 years experience managing a research group, preferably in an industrial setting.

POST-DOCTORAL RESEARCH ASSOCIATE
Gene Inactivation (Job # GP-702)

This person will adapt a novel gene targeting technology for site-specific alteration of genes in plant cells, the goal being to develop an alternative method for assessing gene function through gene inactivation. Demonstrated ability to solve problems and develop innovative procedures is required. Experience with microprojectile bombardment and selection/identifi-

SENIOR RESEARCH ASSOCIATE
Heterosis Research (Job #GP-703)

The role of this position is to employ and develop methods for identifying candidate genes associated with heterosis in corn based on their pattern of gene expression. This position will involve extensive interaction with other members of the Genome Research group and key individuals involved in Corn Breeding Research, Lab Automation and Information Management. Requirements include experience with mRNA isolation from plants, cDNA synthesis, PCR amplification, nucleic acid hybridization principles and quantitative mRNA analysis; familiarity with molecular biology databases and software; demonstrated ability to design and manage large-scale, high-throughput experiments with application of appropriate statistical procedures; ability and motivation to develop or apply new methods, solve problems and keep current on state-of-the-art technology; strong interpersonal skills, and the ability to work both independently and as part of a team. Experience with field genetics or QTL mapping in plants would also be desirable. Candidates should have a B.S. or M.S. in Biological Sciences with 5+ years of laboratory experience in molecular biology. Courses in molecular biology, biochemistry and plant physiology are essential, and some background knowledge of plant breeding or quantitative genetics is preferred.

RESEARCH ASSOCIATE
cDNA Library Construction (Job #GP-704)

This person will join an existing team involved in constructing and evaluating cDNA libraries for the corn genome project, and will help develop normalized cDNA libraries and gene-enriched genomic libraries. Required skills include RNA/DNA isolation, cDNA synthesis, PCR amplification, Northern/Southern hybridization and cDNA/genomic library screening. Experience in quantitative mRNA analysis, subtractive cloning methods or differential display is preferred. Candidates should have a B.S. or M.S. with coursework in molecular biology and biochemistry and 3+ years of experience in molecular biology.

We offer competitive salaries and excellent, comprehensive benefits such as 401(k), tuition and relocation reimbursement. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your resume and cover letter indicating job number by October 7, 1996 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (job #GP- ), P.O. Box 1004, Johnston, IA 50131-1004.
STUDY DIRECTOR
RADIATION HEALTH EFFECTS

The Commission on Life Sciences of the National Research Council's Board on Radiation Effects Research seeks a study director to plan and execute studies of the somatic and genetic effects induced in humans exposed to ionizing radiation. Will serve as the primary staff officer for one or more committees of 10 to 15 expert volunteers. Applicant should have a Ph.D. or M.D. degree, or equivalent in a field related to radiation biology. At least 3-5 years experience in conducting and managing sponsored research programs is required. Applicants should be able to demonstrate an ability to plan, organize, and conduct a complex research program involving multi-disciplinary and controversial issues closely linked to difficult risk-management decisions. Specific experience in radiation biology or radiation physics and record of scholarly achievement in field of experience desired. Ability to direct and motivate work by both volunteer committee members and support staff is essential. Applicant should also be skilled in communicating with sponsors and the general public in both written and oral presentations. Send curriculum vitae or professional biography and letter of interest in confidence to: National Research Council, Board on Radiation Effects Research - JZ, 2101 Constitution Avenue, NW, Washington, D.C. 20418. An Equal Opportunity Employer.

BERRY COLLEGE
Dean, School of Mathematical and Natural Sciences

Berry College invites applications and nominations for the position of Dean of the School of Mathematical and Natural Sciences. Located in the northwest Georgia mountains next to Rome, GA, Berry College is an independent, coeducational college with 2,000 undergraduate and graduate students and a comprehensive curriculum that stresses academic excellence, practical work experience, and an interdenominational religion-in-life program.

The Dean serves as one of five academic leaders reporting to the Vice President for Academic Affairs. The School of Mathematics and Natural Sciences offers undergraduate majors in animal science, biochemistry, biology, chemistry, computer science, decision science, horticulture, mathematics, and physics. There are 500 students seeking majors in the School. A new science facility is being planned.

Candidates must have an earned doctorate in one of the fields included in the School; a record of teaching, research, and service that qualifies for the rank of full professor; strong administrative, organizational, planning, and communication skills; and the experience and skills needed to represent the School within the College and to external constituencies.

Applications and nominations should be sent to Dr. Doyle Mathis, Vice President for Academic Affairs, Berry College, P.O. Box 490640, Mount Berry, Georgia 30149-0640. Berry College is an Equal Opportunity Employer.

FACULTY POSITIONS
Central Institute for the Deaf
Sensory Neurosciences

The Research Department at the Central Institute for the Deaf is seeking new faculty members with a record of excellence in research emphasizing molecular and cellular approaches to degeneration, rescue, and repair, with a focus on the auditory system preferred. Candidates are invited to apply for positions at all levels: Assistant, Associate, and/or Full Research Scientists. CID is a major research and education center founded in 1914 to address the needs of the hearing impaired. We are an affiliate of Washington University Medical Center; joint appointments are encouraged. Required qualifications: earned doctorate (Ph.D. or equivalent degree); minimum of three years of postdoctoral training; publication record in peer-reviewed journals; and evidence of scholarly activity at level of proposed rank. Multidisciplinary research a plus. The successful candidate will be expected to develop a program of externally funded research. Opportunities are available for teaching and/or clinical responsibilities depending on personal interests and training. Salary and rank will be commensurate with qualifications and experience. For fullest consideration, applications should be received by Dec. 20, 1996. Submit statement of research interests, curriculum vitae, and names and addresses of three references to:

Judith Mosinger Ogilvie, Ph.D.
Neuroscience Search Committee
Central Institute for the Deaf
818 South Euclid Avenue
St. Louis, MO 63110
FAX: 314-977-0030
EOE/M/F/V.
BIOINFORMATICS at Schering-Plough

The Schering-Plough Research Institute is expanding its program in Bioinformatics - creating excellent opportunities for scientists with experience in DNA/Protein sequence analysis, database searches and homology motif recognition to establish a new bioinformatics facility. This Bioinformatics Resource Center will collaborate closely with molecular biologists in the application of informatics tools to new and ongoing projects in drug discovery. The successful candidates will have a PhD and 2 or more years of bioinformatics experience in a research setting along with strong interpersonal and communication skills. Exceptional individuals with an MS or MA degree are also encouraged to apply.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume with salary requirements to: Human Resources-DMS/G-BI, MS# 1255, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.

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NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM

The Laboratory of Membrane Biochemistry and Biophysics, NIH, is seeking a biochemist/cell biologist to study lipid metabolism in the nervous system. The successful candidate will be appointed to a position within the Intramural Research Training Award (IRTA) program with a salary ranging from $25,000 to $42,000, depending upon years of experience. Candidates should have fewer than five years of relevant postdoctoral experience. Relevant experience in cell culture, biochemical assays, immunoblotting, chromatography, and subcellular fractionation is desirable. Candidates who wish to apply should send a C.V., bibliography, and three letters of recommendation to Kathleen Hanratty, Personnel Office, Building 31, Room 1B58, 31 Center Drive MSC 2088, Bethesda, MD 20892-2088. Applications must be postmarked by October 31, 1996.

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BIOLOGY

Hillsdale College has the following two tenured track positions available in their Biology Department:

Developmental Biologist/Geneticist
Assistant Professor of Biology, tenure track position opens Spring 1997. Requires teaching Genetics and Developmental Biology and the maintenance of a mouse colony.

Human Gross Anatomist/Histologist
Assistant Professor of Biology, tenure track position opens Fall 1997. Requires teaching Human Gross Anatomy laboratories, two semesters of Human Anatomy and Physiology, and Histology.

Both positions require team participation in a freshman science course, occasional seminar leadership, directing research leading to senior theses, and advising students.

A Ph.D. is required as is a firm commitment to enthusiastic teaching at a small liberal arts college. Send letter of application, three letters of reference, curriculum vitae, and a list of references by November 1, 1996 to Dr. Donald Toczek, Director, Biology Department, Hillsdale College, Hillsdale, Michigan 49242. (Files completed prior to November 1 may receive early interviews.)

Hillsdale College is an independent, traditional college of liberal arts and especially committed to the preservation and transmission of modern man's intellectual and spiritual inheritance from the Judeo-Christian faith and Greco-Roman culture. EOE
The Department of Biochemistry and Biophysics at the University of Pennsylvania is inviting applications from outstanding candidates for full-time TENURE-TRACK FACULTY appointments at all levels. The search will focus on candidates with outstanding records in chemical biology and biophysics. Applications are particularly encouraged from candidates with expertise in the fields of biochemistry, biophysics, and chemical biology. Although the search is open at all ranks, applicants with established records at the Assistant Professor level will be given particular consideration. Successful candidates will have a Ph.D. and/or M.D. at least two years of postdoctoral experience; the ability to develop independent research programs; and the capability to obtain significant external research support. Candidates for the Assistant Professor rank should have excellent credentials and an excellent publication record; candidates for the Associate Professor rank should have a strong record of independent research and a publication record of national stature; and candidates for the Professor rank should have an established record of independent research, a high level of productivity, and a substantial publication record.

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

REPRODUCTIVE ECOLOGICAL PHYSIOLOGIST
MOLECULAR IMMUNOLOGIST

The Department of Biology, San Francisco State University (SFSU), invites applications for two tenure-track positions at the ASSISTANT/ASSOCIATE PROFESSOR level in the Fall 1997 Academic Year. The successful candidate must have a Ph.D. or M.D. and postdoctoral experience. Successful candidates must have an established research record, the potential for extra-mural funding, and a commitment to excellence in teaching that includes graduate level courses. Faculty members are expected to engage in basic, applied, and interdisciplinary research, and to strive to maintain a high level of excellence in all areas of their careers.

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

POSITIONS OPEN

CHEMICAL CLINIC

The Department of Pathology at Northwestern University Medical School invites applications for an ASSOCIATE DIRECTOR of Chemical Clinic. This position is a full-time, continuing position; salary is negotiable based on experience. The Associate Director will assist the Director in the running of the chemical clinic area at Northwestern Memorial Hospital. The successful candidate must have an extensive M.D. or Ph.D. in a discipline related to chemistry and should have experience in teaching either as an Associate Professor or an Assistant Professor.

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

CHAIR, BIOLOGICAL SCIENCES

TENURE-TRACK, 12 month position available June 1, 1997, at Emporia State University. The division offers Bachelor's and Master's degrees. The successful candidate will coordinate a program in Biological Sciences, with emphasis on cell biology and molecular biology. The successful candidate will have a Ph.D. in a traditional discipline with a research record of excellence and a commitment to undergraduate teaching.

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

THE UNIVERSITY OF ADELAIDE

Applications are invited for the position of LECTURER in Terrestrial Ecology, Department of Zoology. The position (Ref. 1798) is available from 1 January 1998, with a salary of $15,624 to $18,612. Further information and the selection criteria can be obtained from Professor Russell Baudinette, Head of Department, Telephone: 61-8-8303-5597; FAX: 61-8-8303-4364; Email: head@zoology.adelaide.edu.au or at http://www.science.adelaide.edu.au/zoology/. Closing date 11 October 1996.

The University of California, Berkeley is an Equal Opportunity/Affirmative Action Employer.
DEAN
School of Biological Sciences
University of California, Irvine
The University of California, Irvine, invites applications and nominations for the position of Dean of the School of Biological Sciences. We seek an individual with an outstanding reputation within the scientific community who will bring vision and innovative leadership to the School. Candidates must have a demonstrated commitment to academic excellence to further advance the School’s standing in research, undergraduate and graduate education, and service. The scholarly achievements of this individual should be appropriate for an appointment as a Full Professor in one of the departments in the School. The School of Biological Sciences comprises four academic departments: Development and Cell Biology, Ecology and Evolutionary Biology, Molecular Biology and Biochemistry, and Psychobiology.
Applications and nominations will be received until the position has been filled. However, the screening process will begin immediately, and individuals are encouraged to apply prior to November 15, 1996.
Nominations and expressions of interest, along with a curriculum vitae and the names and addresses of three referees, should be submitted to:
Professor Thomas Poulos
Chair, Biological Sciences Dean Search
University of California, Irvine
509 Administration, Irvine, CA 92697-1000.
The University of California, Irvine is an equal opportunity employer committed to excellence through diversity.

DEAN
College of Natural and Agricultural Sciences
University of California, Riverside
The University of California, Riverside invites applications and nominations for the position of Dean of the College of Natural and Agricultural Sciences. The College is unique in combining the agricultural, biological, biomedical, and physical sciences under one administrative umbrella. Currently, the College is in the process of implementing changes brought about by an extensive strategic planning effort. The Dean will play a significant leadership role in further implementation and continued efforts to meet the demands of 21st century science.
As part of a land grant institution, faculty in the College carry out the three-fold mission of teaching, research, and public service. Currently, the College has an enrollment of 2,753 undergraduates and 516 graduate students in 16 undergraduate and 20 graduate programs in the following academic units: Biochemistry, Biomedical Sciences, Biology, Botany and Plant Sciences, Chemistry, Earth Sciences, Entomology, Mathematics, Hematology, Neuroscience, Physics, Plant Pathology, Soil and Environmental Sciences, and Statistics.
Major research units within the College include the Institute of Geophysics and Planetary Physics, the Statewide Air Pollution Research Center, and the Citrus Research Center/Agricultural Experiment Station. As Director of the Agricultural Experiment Station and Cooperative Extension, the Dean is responsible for the campus-based, mission-oriented programs of the statewide Division of Agriculture and Natural Resources.
The College and the Agricultural Experiment Station hold 683,223 assignable square feet of space and 1,680 acres of agricultural research land; and in addition, administers eight off-campus holdings of the UC Natural Reserve System comprising 28,159 acres. The College and the Agricultural Experiment Station have 243 ladder-rank positions, 22 Cooperative Extension specialists, and 354 budgeted non-academic staff positions. The total College budget is over $34 million. Approximately one-half of the College budget is allocated to the support of faculty and programs in the Agricultural Experiment Station and Cooperative Extension.
Additional information on the College may be obtained by visiting its Web site at http://cnas.ucr.edu.
The Dean reports to the Executive Vice Chancellor, and through him to the Chancellor of UC Riverside, a comprehensive land-grant research institution. As the most rapidly growing campus within the University of California system, UC Riverside is projected to significantly increase its current enrollment of 9,000 students within the next decade. The Riverside campus affords major opportunity because of its expanding student enrollment and programs and its location in the most rapidly growing region of California.
The Chancellor and faculty seek candidates with a fundamental commitment to academic excellence to lead the college. Applicants must have a distinguished record of research, teaching and public service appropriate to an academic appointment at the level of full professor in the College department of the candidate’s discipline, as well as a record of successful leadership and creative management. Salary will be commensurate with experience and qualifications. The target date for starting the position is July 1, 1997.
Review of nominations and applications will begin November 1, 1996 and continue until the position is filled. Nominations and letters of applications, including a resume and the names and addresses of five references, should be sent to: Chair, CNAS Dean Search Committee, c/o Office of The Chancellor, University of California, Riverside, CA 92521. UCR is an Equal Opportunity/Affirmative Action Employer.

University of California
Riverside

RESEARCH POSITIONS
BELTSVILLE HUMAN NUTRITION RESEARCH CENTER
The United States Department of Agriculture (USDA), Agricultural Research Service (ARS), Beltsville Human Nutrition Research Center (BHNRC), is accepting applications for two permanent full-time research positions:
(1) Announcement Number DB-6-058 for a Research Chemist/Research Nutritionist/Research Biologist/Research Physiologist or related discipline, (salary range $37,094—$95,531). The objective of this position will be to develop an independent research program using metabolic techniques to study the mechanisms of action of phytochemicals as they relate to human nutrition and health. Candidates must have knowledge of human nutrition and either physiology, biochemistry, or molecular biology; knowledge of phytochemical metabolism in humans, animals, or cell systems; and demonstrated experience using methods appropriate for the study of phytochemicals. Specific questions regarding the position may be directed to: Dr. Judith Hatfield, 301-504-8396.
(2) Announcement Number DB-6-063 for a Research Molecular Virologist, Research Molecular Biologist, Research Microbiologist, or related discipline, (salary range $37,094—$68,729). The objective of this position will be to determine the genetic and molecular basis for the increased virulence observed in a pathogenic virus passed through a nutritionally deprived host (Nature Medicine 1:433, 1995). Candidates must have a strong working knowledge of molecular virology, molecular biology, and biochemistry. A Ph.D. in microbiology or related discipline with emphasis on virology is desired. Experience with virus propagation in cell culture and recombinant DNA techniques is essential. Specific questions regarding the position may be directed to Dr. Orville Levander, 301-504-8504.
Applicants must be U.S. citizens. To obtain application procedures and a copy of either announcement, please call, visit or write: USDA, ARS, Human Resources Division, 6305 Ivy Lane, Suite 361, Greenbelt, MD 20770, 301-344-8452. The closing date is November 18, 1996. USDA, ARS is an Equal Opportunity/Affirmative Action Employer.
JUNIOR AND SENIOR FACULTY POSITIONS
UCSF Cancer Center
Cancer Research Institute

The Cancer Research Institute (CRI), a component of the UCSF Cancer Center, invites applications for several new FACULTY positions. We seek outstanding investigators trained in the areas of cancer biology, cancer genetics, and cancer immunology. Successful candidates will receive appointments in academic departments in the School of Medicine and in its graduate programs. New members of the Cancer Research Institute will join an exciting interactive research environment in state-of-the-art research facilities and participate in the development and implementation of an innovative graduate program in Cancer Biology.

Applicants should send a curriculum vitae, a short statement of research plans, and the names of at least three references to:

Thea Thyt, Ph.D. Chair
Cancer Research Institute Search Committee
3333 California Street, Box 1297
San Francisco, CA 94143-1297

The University of California is an Equal Opportunity/Affirmative Action Employer. Minority candidates and women are encouraged to apply.

FACULTY POSITION
MOLECULAR/CELL BIOLOGY

The Department of Pathology, Anatomy and Cell Biology at Thomas Jefferson University (TJU), Philadelphia, Pennsylvania, seeks a qualified investigator at the ASSISTANT PROFESSOR level to join our NIH-supported research program in signal transduction and apoptosis. Studies are also in progress, in collaboration with the Jefferson Alcohol Research Center, regarding the role of cytokines in liver regeneration and drug-induced liver injury. New faculty members in this area will be expected to develop an independent research program based on extramural support. Candidates should have an M.D. or Ph.D. degree, with strong postdoctoral research experience in molecular and cellular biology. Please send curriculum vitae with the names and telephone numbers of three references to:

Dr. Raphael Rubin, Department of Pathology, Thomas Jefferson University, Philadelphia, PA 19107. Telephone: 215-503-4517; FAX: 215-955-8703. Rank and salaries are negotiable, commensurate with experience. TJU is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORS
BIOLOGY

The Department of Biology at the State University of West Georgia seeks applicants for three tenure-carrying ASSISTANT PROFESSORSHIPS. Two positions are available in the area of cell biology. Candidates for these positions are expected to have expertise in cell biology and either developmental biology or human anatomy. One position is available for a generalist with research interests in the area of innovative teaching of college biology. A Ph.D. degree and any programs required for each position. Applications are accepted to teach at the undergraduate and graduate levels, to establish a research program in their disciplines that will involve undergraduate and graduate majors, and to participate in the professional activities of the University and their respective scientific disciplines. The appointments are available in September 1997. Salary is commensurate with experience. For information, please contact the Department of Biology. To apply, send letter, résumé, and three letters of recommendation to:

Dr. Thomas Keim, Chair
Department of Biology
State University of West Georgia
Carrollton, GA 30118

We require a Ph.D. or M.D degree and have at least two years of postdoctoral research training. Preference is given to applicants with research experience in neuroscience and interests that complement existing programs in the department. The successful candidate will be fully funded to establish a research program or an established research program with considerable potential for securing extramural funding. The appointee will be expected to develop a graduate-level research program and to have at least two years of postdoctoral research training, and contribute to a team-taught psychology course for undergraduate students. The position is available August 1, 1997. D. Reply to:

Dr. Jon D. Dunn, Department Head
Department of Anatomy and Physiology
VMC 228
Kean State University
1297 North Avenue
Manhattan, KS 66506.
Kean State University is an Equal Opportunity/Affirmative Action Employer.

TWO ASSISTANT PROFESSORS
THE UNIVERSITY OF TEXAS
Division of Pharmacology and Toxicology

Applications are invited for two tenure-track positions at the level of ASSISTANT PROFESSOR. We are seeking outstanding individuals who will establish vigorous research programs in the pharmacological, physiological, and/or molecular neuropharmacology, and/or molecular neurobiology, although exceptional candidates in other areas of research will be considered.

The Division is undergoing a significant expansion, with approximately 20 new full-time appointments in all 1997 and a third position to be filled by fall 1998. Applications will be expected to attract extramural funding and to participate in the training of graduate and pharmacy students. A Ph.D. degree and 3 years of postdoctoral experience are necessary. The successful candidate will provide a letter outlining their specific research interests; a complete curriculum vitae, including a statement of research interests; and three names of references. Reply to: Dr. James P. Kehrer, Head, Division of Pharmacology and Toxicology, College of Pharmacy, The University of Texas at Austin, Health Science Center, 5619 Lamar Blvd, Austin, TX 78705. Fax: 512-471-2318. E-mail: jkehrer@mail.utexas.edu. Deadline for receipt of applications is November 15, 1996. Additional information about the program may be found at: http://www.utexas.edu/depts/pharmacology/main.html
**POSTDOCTORAL FELLOW**

The Office of the Scientific Director, National Institute on Aging, is seeking a postdoctoral fellow interested in studying mammalian cell cycle regulation. The candidate should have training in cellular and molecular biology. Experience in protein purification and biochemistry is very helpful. Starting salary will be commensurate with qualifications and experience. For more information, contact Dr. Douglas K. Ferris at (301) 846-1427. Interested candidates should submit a curriculum vitae, relevant reprints, and names of three references to:

**National Institute on Aging**  
Attn: Karen Maben  
Personnel Office, Room 1D09  
Gerontology Research Center, 4940 Eastern Avenue  
Bethesda, MD 21224

NIH is an Equal Opportunity Employer

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**CELL BIOLOGIST/CELL PHYSIOLOGIST**

The Department of Cellular Biochemistry & Physiology at Merck Research Laboratories seeks an energetic and creative scientist to join a group studying molecular mechanisms of neuroendocrine secretion. The ideal candidate will have demonstrated expertise in signal transduction research, with an emphasis on the modulatory effects of G-protein coupled receptor activation on excitation-secretion coupling. This position will involve basic research on cellular mechanisms of neuroendocrine function, mechanism of action studies for potential drug development candidates, and conceptualization and implementation of novel screening systems to identify new therapeutically important molecules. This position requires a Ph.D. (or equivalent) and 2 or more years of post-doctoral research experience, with relevant publications.

Merck Research Laboratories are located in Rahway, NJ approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. For consideration, send your resume with the names of three references to: Merck Research Laboratories, Human Resources, Ad/06, P.O. Box 2000, RY 82-A3, Rahway, NJ 07065. EEO/AA/Equal Opportunity Employer M/F/D/V.

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**RESEARCH UPDATE**

American Cyanamid, a division of Fortune 150 American Home Products Corporation, is seeking a highly motivated, innovative senior/research biologist to join the Plant Biotechnology Program at our Agricultural Products Research Center in Princeton, NJ.

**Plant Molecular Biologist/Biochemist**

We'll look to you to become part of an interdisciplinary team, collaborating directly with protein modelers, enzymologists, and cell biologists. Project focus will be in the design, molecular implementation, microbial and plant expression, and the analysis of modified proteins toward the development of crops with altered traits.

To qualify, you must have a Ph.D. with postdoctoral experience in plant molecular biology/biochemistry, preferably with experience applying protein structure/function analysis within your discipline. Experience in standard molecular biology techniques and enzymology is requisite. Candidates with experience studying protein structure/function relationships, protein/inhibitor relationships, molecular modeling, and/or expression and import of heterologous proteins into plant organelles will be preferred.

We offer an excellent compensation and benefit package, which includes tuition reimbursement and 401(k) savings plan. For consideration, please send resume and references to: American Cyanamid, Agricultural Research Center, P.O. Box 400, Dept. MB/KK, Princeton, NJ 08543-0400. Equal Opportunity Employer M/F/D/V.
ORGANISMAL DEVELOPMENTAL BIOLOGIST

The Department of Integrative Biology seeks an innovative, problem-oriented biologist who uses a diversity of techniques to explore the evolution of developmental processes and patterns of evolution in animals with an emphasis on the processes. Research areas of interest include, but are not limited to: the genetic, molecular, and cellular bases of the development of form, developmental genetics (cell/tissue interactions), muscle/developmental biology, and teaching responsibilities include an undergraduate course in organismal developmental biology, participation in a core course, and the development of graduate seminars in the areas of the candidate's expertise.

The position is open to Ph.D. scientists at any level—ASSISTANT TO FULL PROFESSOR—and will contribute to a local and national faculty, which includes evolutionary biologists, systematists, ecologists, behaviorists, and population geneticists, all of whom work interactively and multidisciplinarily. Completion of the application process must be received by October 31, 1996. The appointment commences on July 1, 1997. A curriculum vitae, publications, statements of teaching and research interests, and the names of three referees should be sent to:

Search Committee
Organismal Developmental Biology
Department of Integrative Biology
3060 VLSB Number 2490, University of California
CA 92106-3141

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

ASSISTANT PROFESSOR

CHILDREN'S HOSPITAL MEDICAL CENTER

The Laboratory of Basic Cardiovascular Research at Children's Hospital Medical Center (CHMC) invites applications for an ASSISTANT PROFESSOR position. The candidate must have an M.D., Ph.D., or M.D./Ph.D.; demonstrated ability for creative research; and an interest in G proteins and ion channels. The applicant should have a strong background in traditional protein biochemistry as well as molecular biology. Successful applicants should be available in G protein and ion channel protein purification, the generation and testing of polyclonal and monoclonal antibodies, and the yeast two-hybrid system, and broad experience in molecular biology techniques. Applicants should send their curriculum vitae, a list of publications, and a research proposal to:

Professor David E. Clapham
Director, Basic Research Laboratory
Department of Cardiology
Suite 1309 Enders Building
Children's Hospital
320 Longwood Avenue
Boston, MA 02115

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

DEVELOPMENT FACULTY POSITION

The Department of Biological Sciences, University of Maryland Baltimore County (UMBc), is seeking an outstanding colleague with a Ph.D. and postdoctoral experience, who has demonstrated ability for creative research and development of new research interests. The successful candidate will develop an externally funded independent research program and contribute to undergraduate and graduate teaching in animal development. The Department offers Ph.D.'s in biological sciences, molecular and cellular biology, and marine-estuarine environmental sciences. To support its research, the program has substantial resources for developing new research areas and departmental common equipment are available, including a vivarium containing protocols and facilities, an EM facility, flow cytometers, and a variety of software and start-up funds are competitive. Submit curriculum vitae; summary of current and future research interests; and the names, addresses, and telephone numbers of three references to: The Department of Biological Sciences, UMBc, Baltimore, MD 21250. UMBc is a suburban public research university within the University of Maryland System (http://www.umbc.edu). UMBc is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

PLANT ECOLOGY

Position Reopen

The Department of Biology at The University of Memphis (formerly Memphis State University) invites applications for a tenure-track ASSISTANT PROFESSOR position in plant ecology. Applicants must have a Ph.D. Successful candidates are expected to initiate extramurally funded research programs, direct M.S. and Ph.D. students; and teach effectively at both undergraduate and graduate levels. Successful candidates will contribute to the undergraduate ecology course and teach upper-division and graduate courses in plant ecology. The Department is interested in applicants whose research interfaces/complements existing research interests and who have postdoctoral experience.

Applicants should submit a letter of application, a curriculum vitae, a concise description of research and teaching interests, three letters of recommendation, and a statement of research interests, of the candidate. The position is filled by the summer of 1997.

Send applications to: Dr. Harold Bancroft, The University of Memphis, Department of Biology, Campus Box 526080, Memphis, TN 38152-6080. Telephone: 901-678-2592; FAX: 901-678-47. Applications must be received by the University of Memphis is an Affirmative Action/Equal Opportunity Employer.

DEVELOPMENTAL BIOLOGIST

Bayou University, a private liberal arts university of 12,000 students, seeks a developmental biologist for a tenure-track ASSISTANT PROFESSOR level beginning 1 July 1997. Applicants must have a Ph.D. degree, with postdoctoral experience preferred, and be current in original research; and be available in the biology of development, cell biology, and cell biology of the nervous system. Responsibilities: teach courses in embryology/developmental biology, in area of specialty, and in the introductory biology sequence; establish a research program that provides opportunities for students to participate, and who can participate in research opportunities; and participate in departmental and university service activities. Bayou is renowned for excellence in teaching, balanced with quality faculty and student research. Submit, by 15 November 1996, applications, letter, curriculum vitae, three letters of recommendation, graduate and undergraduate transcripts, statement of research interests, and three recent publications to: Prof. Ken Wilkins, Search Committee Chair, Department of Biology, Bayou University, Waco, TX 76798-7388. Telephone: 817-755-2800. Fax: Available at http://www.bayou.edu. Bayou University is an Baptist university affiliated with the Baptist General Convention of Texas. As an Affirmative Action/Equal Employment Opportunity Employer, Bayou encourages minority, women, veterans, and persons with disabilities to apply.

ASSISTANT PROFESSOR

ORGANIC AND BIOPHYSICAL CHEMISTS

The Department of Chemistry and Biochemistry at New Mexico State University invites applications for two tenure-track faculty positions at the ASSISTANT PROFESSOR level, one in the area of organic chemistry and the other in physical chemistry, both effective August 1, 1997. Positions are open to those with the Ph.D. degree and postdoctoral experience. Candidates are expected to contribute to undergraduate and graduate teaching in organic chemistry or biochemistry and to be able to participate in research that involves cooperation with existing faculty. They will be expected to establish externally funded research programs. The Department offers the B.A., B.S., M.S., and Ph.D. degrees. Applicants must submit a letter of application, a complete curriculum vitae, and three letters of recommendation. Applications and graduate transcripts, statements of research and teaching interests, and an estimate of start-up costs, and should arrange for letters of recommendation to be sent to: Dr. Robert Hoffman, Search Chairman (Organic) or Dr. Peter Lammers, Search Chairman (Biochemical), Box 30001, Department SC, New Mexico State University, Las Cruces, NM 88003-8001. Complete applications must be received by October 30, 1996. NMSU is an Equal Employment Opportunity/Affirmative Action Employer. Offer of employment is contingent upon verification of the individual's eligibility for employment in the United States.

TRANSPLANT IMMUNOLOGIST

The Heart Failure and Cardiac Transplant Program of the Rush Heart Institute at Rush-Presbyterian-St. Luke's Medical Center is seeking a full-time, tenure-track faculty member at the ASSISTANT PROFESSOR level, to establish an independent research program in the cellular immunology of transplantation. The Rush Heart Failure Institute is a part of a large, multi-disciplinary team of transplantation specialists. The expanded involvement of the ongoing collaborative investigation among these transplantation programs is an important institutional focus. Joint appointment in an appropriate basic science department is available and encouraged. Support in the form of laboratory space and start-up funds will be made available. The successful candidate will have a strong track record of graduate and postdoctoral training, as evidenced by 1-2 years of NIH K levels. The candidate is expected to develop a competitive extramural funding record and the demonstrated ability to attract extramural funding.

Interested applicants must submit a curriculum vitae, a statement of research interests, and the names of three references to: Dr. Robert Hoffman, Search Chairman (Organic) or Dr. Peter Lammers, Search Chairman (Biochemical), Box 30001, Department SC, New Mexico State University, Las Cruces, NM 88003-8001.

BEHAVIORAL NEUROSCIENCE

The Department of Psychology at the University of Wisconsin-Milwaukee anticipates an opening in Behavioral Neuroscience beginning in the fall of 1996. The appointment would be tenure-track at the ASSISTANT PROFESSOR level. Candidates should have a Ph.D. and significant postdoctoral research experience. Area of specialization is open but outstanding individuals with interests in the neurobiology of learning and memory, or sensory physiology are particularly encouraged to apply. For most favorable consideration send curriculum vitae, a statement of research interests, and three letters of recommendation before January 1, 1997.

The University of Wisconsin-Milwaukee is an Equal Opportunity/Affirmative Action and ADA Employer. Minority and women applicants are encouraged to apply.

UNIVERSITY OF CALIFORNIA, IRVINE SCHOOL OF BIOLOGICAL SCIENCES

Academic Programs

Ocasional openings for academic researchers, postdoctorals, specialists, and lecturers in our Departments of Developmental and Cell Biology, Ecology and Evolutionary Biology, Molecular Biology and Biochemistry, and Marine and Molecular Biology. Inquire at http://www.bio.uci.edu/. Inquiries may also be sent by FAX to: J. Swenson, School of Biological Sciences, UC Irvine. FAX: 714-824-7407. University of California, Irvine is an Equal Opportunity Employer committed to excellence through diversity.
Head of Pharmacology Research
Pharmacia & Upjohn AB, Sweden

As Head of Pharmacology at P&U’s Research Center in Sweden, you will lead approximately 100 scientific staff who focus their research primarily on endocrine and vascular metabolic diseases. You will provide managerial and scientific leadership which will be key in the Company’s ability to initiate and drive new and current research projects. You will have every support to develop and foster external collaboration with academia and other healthcare companies on an international basis.

To fulfill the requirements of this key leadership post, you will have a Ph.D. in Pharmacology or its equivalent and strong research credentials, preferably in metabolic diseases. Well qualified candidates from academia will be considered, but this senior post is ideally suited for a young but established research leader in the pharmaceutical industry who wishes to grow rapidly in our team-oriented and innovative environment. With an established track record of achievement, excellent leadership and interpersonal skills we would expect you to have potential and ambition to grow into more senior roles. Fluency in English is essential.

This is a key post for the company and so it carries an appropriate compensation package and a generous relocation allowance.

For further details please see our home page on the world-wide web or contact the Head of Research in Sweden, Leslie Hudson, via phone +46 8 695 77 10 or E-mail: leslie.hudson@eu.pmu.com.

Please submit your application marked F96.32 including a detailed CV, research experience, publication list, names and addresses of references to Lotta Hansing, Pharmacia & Upjohn AB, Human Resources, S-112 87 Stockholm, SWEDEN or E-mail: lotta.hansing@eu.pmu.com, before 20 October.
POSITIONS OPEN

POSITION IN LEARNING AND MEMORY ASSISTANT, ASSOCIATE, OR FULL PROFESSOR
DEPARTMENT OF PSYCHOBIOLOGY
University of California, Irvine

Department of Psychobiology is seeking outstanding candidates in the field of the neurobiology of learning and mem- ory. We are interested in candidates who have expertise with a focus on problems of learning and memory, integrative neuroscience, and aging/neurodegeneration. The successful candidate will be working at the molecular, cellular, systems, and behavioral levels of analysis. The level of appointment will be consistent with the candidate's past accomplishments. Send applications (résumé, research plans, and the names and addresses of three potential referees) by October 15 to: Brian A. Carter, Search Committee, Department of Psychobiology, University of California, Irvine, CA 92697-3900. Applications will be reviewed continuously.

ASSISTANT PROFESSOR (Job Code 08-15: 94-3984)

The Department of Psychiatry, Psychiatric Institute, University of Illinois at Chicago (UIC) seeks a full-time, tenure-track, ASSISTANT PROFESSOR in the area of pharmacology with emphasis in brain function, memory and learning. The successful candidate will be expected to establish an independent research program in these areas. The successful candidate will be expected to teach and serve as a consultant to the Department of Pharmacology and Neuroscience. The Department of Pharmacology and Neuroscience is a newly created department and has an opportunity for candidates to set the direction of the department. The University of Illinois at Chicago is an Equal Opportunity/Affirmative Action Employer. Applications are invited and will be considered until the position is filled.

ASSISTANT PROFESSOR
Biochemistry, tenure-track beginning fall 1997. The Chemistry Department at Lawrence University, a liberal arts college dedicated to excellence in undergraduate education, seeks an energetic and innovative teacher who will also develop a lively re- search program. The department has significant quantities of equipment for the interface of chemistry and biology. Computer expertise that enhances current departmental resources is desirable. Teaching responsibilities will include introductory and intermediate courses in life-based biochemistry, an intermediate course for chemistry and biology majors, and interdisciplinary courses such as a college-wide first-year program. Ph.D. required; significant postdoctoral teaching and/or research experience in general or molecular biology; experience in teaching, research interests, three letters of reference, and undergraduate and graduate transcripts to: M. F. Blackwell, Chair, Department of Chemistry, Lawrence University, Appleton, Wis. 54911-0089. Review of applications begins 1 December 1996. Affirmative Action/Equal Employment Opportunity.

FELLOW IN THEORETICAL NEUROBIOLOGY

The Neurosciences Institute is an independent, non-profit organization at the forefront of research on the brain. Located in La Jolla, the Institute is also the home of the Neurosciences Research Program and serves as an international meeting place for neuroscientists; Fellows have opportunities to interact with visitors from many institutions worldwide. Applications are invited for positions as JUNIOR or SENIOR FELLOW in Theoretical Neurobiology. Since 1987, the Institute has had a research program dedicated to developing biologically based, experimentally testable theories of the brain. Fellows are encouraged to develop experimental and theoretical models that include large-scale simulations of neuronal networks, the design of behavior using automata, and detailed formulations of biologically based models of perceptual systems. Junior Fellows, along with more senior Fellows and colleagues at the Institute, will have opportunities for advanced training in neural modeling and theoretical approaches to understanding brain function. Fellows in the Institute are expected to collaborate with Institute members and interact with Fellows in Experimental Neurobiology at the Institute.

Applicants should be postdoctoral (Junior Fellow) or senior (Senior Fellow) neurobiologists with strong backgrounds in experimental or theoretical neuroscience or related fields. Experience in computer modeling is especially welcome. Positions are available now. Fellows will receive stipends appropriate to their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: Dr. W. Elmar Gall, Research Director, The Neurosciences Institute, 8650 John Jay Hopkins Drive, San Diego, CA 92121.

MOLECULAR VIROLOGY
T. Jake Liang, M.D.

Current research focuses on the molecular pathogene- sis of hepatitis B and C viruses. Elucidation of mechanisms of HBV and HCV infections leading to chronic infection and cirrhosis and development of effective vaccines is a major research effort. Several positions are available to study various aspects of molecular virology and viral pathogenesis. Applicants should have a strong background in molecular virology. Candidates with experience in viral and cell immunology, nucleic acid-protein interaction, signal transduction, and transgenic animal work are encouraged to apply. Applicants should have a Ph.D. or M.D. and must be U.S. citizens or permanent residents. Contact: Liver Diseases Section, Digestive Diseases Branch, NIDDK, Building 10, Room 9B16, 10 Center Drive MSC 1800, Bethesda, MD 20892-1800.

Two POSTDOCTORAL FELLOWSHIP/RE- SEARCH ASSOCIATE positions to investigate regula- tion of the viral life cycle, and the relation of the viral life cycle to cellular processes. One position is for a neuroscientist to investigate NO interactions with anesthetics and analgesia in the central nervous system. Neuropharmacology, neurobiotrans- mitters, and the neuroendocrine system are important areas of interest. Ph.D. required. The second position will investigate molecular regulation of lung vascular nitric oxide synthase and soluble guanylyl cyclase expression. A significant molecular biology background and experience in cellular and molecular biology is required. Ph.D. or equivalent training is required. Vascular biology experience helpful. Please submit your curriculum vitae and three references to: Roger A. Johns, M.D., University of Virginia Health Sciences Center, Box 238, Charlottesville, VA 22908 U.S.A. The University of Virginia is an Equal Opportunity Employer.

POSITIONS OPEN

A & PC

A & PC is a rapidly expanding biotechnology company specializing in the development of cancer, AIDS, autoimmune diseases, and organ transplants.

We are currently seeking five qualified, highly motivated individuals to serve as TECHNICIANS and five qualified, highly motivated individuals to serve as SCIENTISTS/ STAFF SCIENTISTS (requires at least three years of postdoctoral experience) to conduct research aimed at understanding the mechanisms of cell cycle regulation. Areas of special interest include chromosome structure and function, microtubule associated proteins and dynamics of spindle formation and degradation. Experience in one or more of the following techniques is highly desirable: fluorescence microscopy, confocal microscopy, electron microscopy, time lapse video, CCD imaging and image analysis.

Qualifications for each position are as follows: Scientist or Staff Scientist: Ph.D. or equivalent degree and a minimum of three years of postdoctoral experience in cell and developmental biology. Technician: B.S. or M.S. and a minimum of three years of work experience in the areas of cell and developmental biology. Salary is commensurate with experience, benefits and relocation expenses paid. Submit with references to: Midland Certified Reagent Co., 3112A West Cuthbert Avenue, Midland, TX 79701.
**University of Basel, Switzerland**

**Professor of Molecular Medicine**

The University of Basel Medical School, the Department of Research of the University Hospital (Kantonsspital) and its clinical units are inviting applications for a Full Professorship in Molecular Medicine and Pathophysiology within the context of a new interdisciplinary focus of the Medical and Natural Sciences Faculties that combines clinical, biological and pharmaceutical research within a common infrastructure and new building (Pharmazentrum).

Candidates should have an outstanding research record in the field of molecular mechanisms of disease. Basel provides unique opportunities to interact and collaborate with well known research institutions such as the Biozentrum of the University, the Friedrich Miescher Institute and the Basel Institute of Immunology.

Starting date is January 1997 or negotiable. A new research building located between the Biozentrum and the Clinics will be available in the year 2000 and will house both Molecular Medicine, Pharmaceutical Sciences and groups working in the Biotechnology field (Pharmazentrum). Until then, research space will be available within the Department of Research of the University Hospital (Kantonsspital). Moreover, funds are available for the establishment of tenure track junior groups in Molecular Medicine.

The professorship involves responsibility for teaching in Molecular Medicine (Pathophysiology) and eligibility for the rotating chairmanship of the Department of Research of the University Hospital.

Women are particularly encouraged to apply.

For consideration, send your résumé and list of publications to Dekanat der Medizinischen Fakultät, Kantonsspital Basel, CH-4031 Basel, Switzerland, Fax No. 41-61-265 22 30 until October 15, 1996. For further information contact Prof. Urs A. Meyer, Head of the search committee, Biozentrum of the University of Basel, Dept. of Pharmacology, Klingelbergstrasse 70, CH-4056 Basel, Switzerland, Fax No. 41-61-267 22 08.

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**THE AGA KHAN UNIVERSITY**

**Faculty of Health Sciences**

**Medical College**

The Aga Khan University was chartered in 1983, as Pakistan's first private University, committed to high international standards of community-oriented medical and nursing education, research and high quality of health services.

The Department of Physiology and Pharmacology has recently been merged and consists of 11 Faculty members including 4 Professors. Research is currently carried out in various disciplines of Physiology and Pharmacology, particularly in Neuroscience, Cardiopulmonary and Signal Transduction.

The University is in search of outstanding candidates to fill the following positions:

**SENIOR INSTRUCTOR**

**DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY**

Ph.D. or MBBS with M.Sc. or M. Phil. in Physiology or Pharmacology. Applicants with relevant teaching experience will be preferred.

**ASSISTANT PROFESSOR (two positions)**

**DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY**

Ph.D. or equivalent qualification with at least 2-3 years Post-doctoral teaching/research experience. Candidates with expertise in the Cardiovascular System and/or Molecular Cell Biology of Signal Transduction will be given preference, but also applications from related fields will be considered.

Salary and benefits will be offered commensurate with qualifications, experience and level of responsibility. If you are seeking professional growth and an excellent work environment, please send your detailed résumé, bibliography, research and teaching plans, and names and addresses of at least three referees familiar with your recent work history to the Personnel Director, The Aga Khan University, P.O. Box 3500, Stadium Road, Karachi-74800, Pakistan.
Three POSTDOCTORAL research positions available in mechanisms of carcinogenesis of aromatic hydrocarbons and estrogens and cancer risk assessment. Immunologist (Position 1) to study immune mechanisms in xenobiotic metabolism, cell-mediated immunity, and in vivo assays of immune function. Immunologist (Position 2) to participate in developing molecular dosimeters for chemical-dependent DNA damage and assessment of DNA adducts by HPLC, ELISA, and in vitro. Bacteriologist/Molecular Biologist (Position 3) to study repair of DNA adducts and apurinic sites and related mutations. Community positions available with names of three references to: Dr. George P. Casale (Immunologists) or Dr. Eleanor R. Ragan (Biochemist), Eppley Cancer Institute, University of Nebraska Medical Center, Omaha, NE 68198-8805.

POSITIONS OPEN

POSTDOCTORAL POSITION
Mycobacteria Biology
A position is available immediately for a Ph.D. or M.D. with a background in molecular biology to study Mycobacterium tuberculosis (Mtb) during pulmonary infections. The project involves isolation of Mtb genes expressed during lung infection. Other projects include vaccine development and analysis of T cell responses against pulmonary pathogens. Applicants with background in prokaryotic molecular biology are preferred. Send curriculum vitae and names of three references to: Rick Lyons, M.D., Ph.D., Assistant Professor, UNM Cancer Research and Treatment Center, UNM Health Sciences, University of New Mexico, Albuquerque, NM 87131, Telephone: 505-277-4450; FAX: 505-277-7224; Email: Rlyons@meduna.unm.edu. University of New Mexico is an Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL ASSOCIATE
SYNAPTIC PLASTICITY
Join ongoing electrophysiological studies of synaptic co-transmission in sympathetic ganglia. This position requires experience in voltage-clamp and an interest in pre- and post synaptic mechanisms that mediate interactions between nicotinic, muscarinic, and peptidergic receptors. Ph.D. or M.D. required. Send curriculum vitae and names of three references to: Dr. John P. Horn, Department of Neurobiology, E1440 Bi, University of Pittsburgh, School of Medicine, Pittsburgh, PA 15261. Email: JPH@pitt.edu. University of Pittsburgh is an Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
Anticipated availability of one or two positions in the Laboratory of Molecular Psychiatry to work on cloning and neuropharmacological analysis of imidazoline receptors. Relevant references: J. Ion, et al. (1995) Science 269:174-177; and P. Gardiner, et al. (1996). Send curriculum vitae and names of three references to: Dr. John Gardner, Department of Physics, Oregon State University, Corvallis, OR. Email: gardnerj@ucr.ost.edu. Oregon State University is an Affirmative Action/Equal Employment Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

POSTDOCTORAL POSITION available immediately, in NIH-supported research on ovarian function as affected by xenobiotic estrogen-modulating molecules (xens). Positions available in research programs on the molecular mechanisms of cell signaling with names of three references to: Dr. Judith Hutz, Ph.D., Department of Biological Sciences, University of Wisconsin, Madison, Wisconsin 53706. Send curriculum vitae and names of three references to: Dr. Judith Hutz, Ph.D., Department of Biological Sciences, University of Wisconsin, Madison, Wisconsin 53706. Send curriculum vitae and names of three references to: Dr. Judith Hutz, Ph.D., Department of Biological Sciences, University of Wisconsin, Madison, Wisconsin 53706.

POSTDOCTORAL POSITION immediately available to study the molecular mechanisms of dopaminergic neuronal death following neurotoxin administration and transplantaion in experimental models of Parkinson disease. Experience in cell culture, molecular biology, immunohistochemistry, in situ hybridization, PCR, stereotaxic surgery, and grafting techniques is essential. Send curriculum vitae and references to Dr. Maryann Beck, Department of Neurology, Columbia University, 650 West 168th Street, Room BB-37, New York, NY 10032. Email: mbeck@mail.uchsc.edu. Columbia University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study calcium signaling mechanisms and the regulatory role of nitric oxide. Experience in molecular characterization of signal transduction mechanisms, single cell measurement, and imaging techniques is desirable. Send curriculum vitae and three references to: Dr. Lubo Zhang, Center for Perinatal Biology, Loma Linda University School of Medicine, Loma Linda, CA 92350. FAX: 909-824-4029; Email: lzhang@cemail.lmu.edu. Loma Linda University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION/SIGNAL TRANSDUCTION
A position is available now to study the signal transduction pathways in the insulin transduction network and their relationship to insulin action. Requires strong background in signal transduction mechanisms with single cell measurement, and imaging techniques is desirable. Send curriculum vitae and three references to: Dr. Lubo Zhang, Center for Perinatal Biology, Loma Linda University School of Medicine, Loma Linda, CA 92350. FAX: 909-824-4029; Email: lzhang@cemail.lmu.edu. Loma Linda University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
Prokarvotic DNA interacraions related to conceptually novel methods of DNA sequencing with modular primer walking. Send references, curriculum vitae and names of three references to: Dr. Douglas Dennis, Department of Biology, James Madison University, Harrisonburg, VA 22807. Email: dennis@jmu.edu. James Madison University is an Affirmative Action/Equal Employment Opportunity Employer and specifically encourages applications from women and minorities.

POSTDOCTORAL POSITIONS available at the Argoine National Laboratory (20-minute drive from Chicago, Illinois) and at the Weizmann Institute of Science, Israel. Research on molecular mechanisms of DNA-DNA interactions and the use of site-directed mutagenesis, protein chemistry, tissue culture, and cell lines. Send curriculum vitae and names and telephone numbers of two references to: Dr. Thomas F. Fanno, University of Virginia, Department of Biotechnology and Institute of Science and Technology, Blacksburg, VA 24061-0308. Virginia Tech is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP: Immediate opening in NIH-funded projects to examine regulatory mechanisms in cell-surface molecules and cellular junctions in inflammatory disease. Published experience in confocal microscopy a must. Experience with in situ method of cell adhesion assay is also preferred. Send curriculum vitae and names of three references to: Dr. Dorothy Becker, Ph.D., Department of Pathology, University of Pittsburgh, Pittsburgh, PA 15261. FAX: 412-624-2860; Email: BeckerD@pitt.edu. University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP available at the University of Maryland, School of Medicine, 80 East Concord Street, Baltimore, MD 21205. Email: tfreddo@acsu.buffalo.edu. Carnegie Mellon University's Department of Engineering and Public Policy (EPP) POSTDOCTORAL OPPORTUNITIES in risk ranking (requires background in risk and experimental social science); uncertainty analysis (requires background in applied decision analysis); climate change policy. Send curriculum vitae and list of references to: Dr. David H. Morgan, EPP—BH 129, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213.

CORONARY PHYSIOLOGY POSTDOCTORAL POSITION
If you wish to investigate the control of coronary blood flow by adrenergic and adenosine-mediated mechanisms in whole animal preparations, please write to us. Include a curriculum vitae and list of references who may be contacted. Eric Feigl or Keith Kroll, Department of Physiology and Biophysics, University of Washington, Box 357290, Seattle, WA 98195-7290.

Carnegie Mellon's Department of Engineering and Public Policy (EPP) POSTDOCTORAL OPPORTUNITIES in risk ranking (requires background in risk and experimental social science); uncertainty analysis (requires background in applied decision analysis); climate change policy. Send curriculum vitae and list of references to: Dr. David H. Morgan, EPP—BH 129, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213.

POSTDOCTORAL POSITION
Harvard University
A POSTDOCTORAL position is immediately available to study the molecular basis of metabolic disorders in kidney disease. Strong background in molecular biology should send curriculum vitae with names and telephone numbers of three references to: Gökhan S. Hotamisligil, M.D., Ph.D., Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115. Email: ghotamis@hsph.harvard.edu.

POSTDOCTORAL POSITION available in prokaryotic genetics laboratory to study basic and applied aspects of polyhydroxylketone synthesis. Ph.D. and experience in recombinant DNA technology. Successful candidates will also supervise undergraduate researchers and teach an occasional lecture. Salary range is $25,000 to $28,000, depending on experience and qualifications. Send curriculum vitae and names of three references to: Dr. Douglas Dennis, Department of Biology, James Madison University, Harrisonburg, VA 22807. Email: dennis@jmu.edu. James Madison University is an Affirmative Action/Equal Employment Opportunity Employer and specifically encourages applications from women and minorities.

POSTDOCTORAL POSITIONS available at the Argonne National Laboratory (20-minute drive from Chicago, Illinois) and at the Weizmann Institute of Science, Israel. Research on molecular mechanisms of DNA-DNA interactions related to conceptually novel methods of DNA sequencing with modular primer walking. Send references, curriculum vitae and names of three references to: Dr. Douglas Dennis, Department of Biology, James Madison University, Harrisonburg, VA 22807. Email: dennis@jmu.edu. James Madison University is an Affirmative Action/Equal Employment Opportunity Employer and specifically encourages applications from women and minorities.

POSTDOCTORAL POSITIONS available at the Argoine National Laboratory (20-minute drive from Chicago, Illinois) and at the Weizmann Institute of Science, Israel. Research on molecular mechanisms of DNA-DNA interactions related to conceptually novel methods of DNA sequencing with modular primer walking. Send references, curriculum vitae and names of three references to: Dr. Douglas Dennis, Department of Biology, James Madison University, Harrisonburg, VA 22807. Email: dennis@jmu.edu. James Madison University is an Affirmative Action/Equal Employment Opportunity Employer and specifically encourages applications from women and minorities.
POSTDOCTORAL FELLOW
(BIOMATHEMATICS)
REF: 70/SE/BIOM/96
(Good salary and benefits package)

ICIPE is an intergovernmental organization funded by various governments, aid agencies, and private foundations to carry out research and training into the environmentally sound and sustainable management of arthropods for improved health and agricultural productivity in the tropics. ICIPE has 300 international and national staff to support its research programme, which comprises two- to three-year projects, so the organization and its employees are constantly changing. The Director General is currently focusing ICIPE's research programme to utilize the available resources more effectively.

To support various research activities, the above-mentioned position within the establishment needs to be filled.

Candidates will provide biomathematical consultation and support services to insect scientists and carry out biomathematical research and training.

Candidates should have a Ph.D. in statistics or applied mathematics with a bias toward biometrics; this Ph.D. programme must have been completed within the last 18 months. An excellent knowledge of SAS package is essential, with continuous experience in using the software. Knowledge of other statistical software packages will be an added advantage. Thorough knowledge of Lotus 1-2-3 and DBase IV is required. Knowledge of other spreadsheet and database software will be an added advantage. Pre-postdoctoral working experience in an agricultural based research centre is desirable.

Salary remuneration is internationally competitive. Benefits include housing and transport allowance or company car; group life, accident and medical insurance; education allowance; 30 days leave; non-contributory pension scheme; and relocation facilities.

Applications, with full CV and publications list, including the names and addresses with telephone/fax/e-mail numbers of three referees, should be sent before 18 October 1996 to: Director, Management, ICIPE, PO Box 30772, Nairobi, Kenya, Fax: 254-02-803360/860110; E-mail: icipe@cgnet.com.
The Max Planck Institute for Marine Microbiology, Bremen, Germany, invites applications for a position as Postdoctoral Scientist in our Microsensor Group. The group studies the biochemistry of the sediment-water-interface and combines laboratory research with in situ analyses using benthic landers during research cruises.

The candidate should have a background in biology or geochemistry and will join research on microbial and chemical processes in the sea floor.

The position is available now and is limited to 3 years with the possibility of extension. The salary is according to the German BAT IIa/IIb.

Applications, including a curriculum vitae, a list of publications, and a short description of future research objectives, are invited within one month to:

Max Planck Institute for Marine Microbiology
Dr. M. Kühl (Head of Microsensor Group)
email: michael@postgate mpi mm uni bremen.de
FAX: +49-421-2028690
Celsiusstr. 1, 28359 Bremen, Germany

**Molecular Biology and Bioinformatics**

**The positions**

3 positions in molecular biology and 1 position in bioinformatics are available in the Central Research unit of Bayer AG.

**Your application**

Please send your application in the form of a C.V. accompanied by a short letter outlining relevant experience, quoting ref. number 206, to the address shown below.

Bayer AG
Personalmarketing
Geb. 4809
D-51368 Leverkusen
Germany

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**POSTDOCTORAL RESEARCH POSITIONS**

POSTDOCTORAL RESEARCH positions at EPA—Two projects are available at the National Risk Management Research Laboratory (NRML) in Cincinnati. One project is on development of computer programs to measure progress in pollution prevention resulting from product redesign, reformulation, or replacement. The other is related to development of methodologies for multimedia environmental impact assessment for pollution prevention. Prefer doctoral degree within last three years with a background in toxicology, health or environmental sciences, or engineering. Knowledge of impact assessment also needed. Contact: Postgraduate Research Program/NRML, ETD/ORISE, P.O. Box 117, Oak Ridge, TN 37831-0127. Telephone: 423-576-1083. Reference NRML 96-04/05.

TWO POSTDOCTORAL RESEARCH FELLOWSHIPS IN MOLECULAR BIOLOGY

Applications are invited for two Ph.D. POSTDOCTORAL FELLOWS to work on the structure-function of nuclear receptor HNF-4 and its role in apolipoprotein gene expression. Both positions involve application of techniques in molecular biology, bacterial protein expression, and tissue culture, and would suit candidates with particular interest and skill in molecular biology. The positions are available immediately for two to three years and salary support will be at NIH scale.

Applicants should send a curriculum vitae and names and addresses of three references to: Dr. M. Hadzopoulou-Claras, Section of Molecular Genetics, Boston University Medical Center, 700 Albany Street, CABB-W509, Boston, MA 02118-2394. Further details can be obtained by Telephone: 617-638-5083; FAX: 617-658-5141; Email: claras@bu.edu.

**POSTDOCTORAL POSITION**

POSTDOCTORAL POSITION available in NIH-funded project to study mechanisms and machinery of RNA editing. Experience in protein biochemistry and/or molecular biology required. Send curriculum vitae and three letters of reference to: Kenneth Stuart, Ph.D., Seattle Bio-medical Research Institute/University of Washington, Department of Pathobiology, Job 96-15, 4 Nickerson Street, Seattle, WA 98109. Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** at the University of Colorado Health Sciences Center (UCHSC), Center for Human Nutrition. This is an NIH-funded interdisciplinary program with mentors from the departments of Pediatrics, Medicine, Physiology, Epide-miology, and Exercise Science. Areas of research include: macromolecular metabolism, obesity and diabetes, nutrient regulation of gene expression, nutrition and cancers, sympathetic nervous system and aging, lactation and milk secretion, and antioxidants in liver disease. Applicants should have completed degree requirements for Ph.D. or M.D. degree and should have a strong interest in pursuing careers in nutrition or nutrition-related disciplines. U.S. citizenship or permanent residency is required. Interested applicants should send a curriculum vitae, a brief summary of research experience and interests, and the names of three references by November 15, 1996 to: Michael Pagliassotti, UCHSC, 4200 East Ninth Avenue, C225, Denver, CO 80262. UCHSC is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS** available immediately in a growing, NIH-funded laboratory to study excitation-contraction coupling in heart failure. Projects in the laboratory involve analysis of failing human hearts as well as several animal models. Previous experience in protein biochemistry and organ or cell physiology is required, molecular biology in addition to these areas would be an added advantage. Salary commensurate with experience. Send curriculum vitae and the names of three recent references to: Dr. Christina S. Moreave, Center for Anesthesiology, Research, The Cleveland Clinic Foundation, 9500 Euclid Avenue, F40, Cleveland, OH 44195.

**POSTDOCTORAL POSITIONS** available immediately, one in enzyme reaction mechanisms and the other in regulation of gene expression in eukaryotes. Both positions involve the study of home biosynthesis. A strong background in enzymology, protein purification, and/or molecular biology is requested. Send curriculum vitae and names of three references to: Dr. Gloria C. Ferreira, Department of Biochemistry and Molecular Biology, College of Medicine, MDC 7, University of South Florida, Tampa, FL 33612-4799. FAX: 813-974-8798; Email: gferrei@coml.msd.ufl.edu.
Applications are invited for two tenure track positions at the Assistant/Associate Professor level to begin July 1, 1997. The first position is sponsored jointly by the Departments of Anatomy and Cell Biology, Physical Therapy, and Occupational Therapy, and carries teaching responsibilities in an interdepartmental gross anatomy course for physical and occupational therapy students. Candidates for this position will have extensive experience in teaching PT/OT anatomy (or other allied health science anatomy with emphasis on extremes/function) will be given high consideration. A second position, sponsored solely by the Department of Anatomy and Cell Biology, requires expertise in human histology and cell biology, and developmental anatomy, and the successful candidate will contribute equally to team-taught courses in these fields. Candidates for both positions will be expected to contribute to graduate student education and must have a Ph.D. or equivalent with at least two (2) years of postdoctoral training. Research experience is preferred in cell and developmental biology, molecular biology, and/or related fields. Successful applicants will be expected to carry out vigorous externally funded research programs. Review of applications will begin immediately and continue until the positions are filled. Candidates for the first position should send curriculum vitae, descriptions of research and teaching experience, and three (3) letters of reference to Dr. Edward C. Carlson, Chairman. Candidates for the second position should send the same information to Dr. Mark D. Olson, Search Committee Chair, Department of Anatomy and Cell Biology, Box 9037, University of North Dakota School of Medicine and Health Sciences, Grand Forks, North Dakota 58202. The University of North Dakota is an Equal Opportunity/Affirmative Action employer and invites applications from all qualified individuals.

BIOZENTRUM
UNIVERSITY OF BASEL

Professorship in Structural NMR Spectroscopy

A position is vacant for a Full Professor in Structural Biology. Applications are invited from candidates with demonstrated expertise and accomplishments in modern multidimensional NMR applied to structure, function and dynamics of biomolecules. The successful male or female candidate is expected to develop a strong research program that will complement activities already existing at the Biozentrum in the fields of X-ray crystallography and the various microscopies. A contribution to the teaching at the Biozentrum, both at the undergraduate and graduate levels, is expected. The University provides a core of salaried positions, equipment and running costs.

Applications including a curriculum vitae, a list of publications, reprints of about five representative publications, a short overview of past, present and planned research activities, and a description of teaching experience should be submitted before November 30, 1996, to the Dean of the Faculty of Sciences at the following address:

Dekan der Philosophisch-Naturwissenschaftlichen Fakultät der Universität Basel, Missionsstrasse 64, CH-4055 Basel, Switzerland.

For further information, please contact Prof. Joachim Seelig, Biozentrum, Klingelbergstrasse 70, CH-4056 Basel, Switzerland (Telephone 0041/61 267 21 90; Fax 0041/61 267 21 89; E-mail: seelig1@ubacu.unibas.ch).

Department of Physiology & Biophysics
University of California, Irvine

Postdoctoral Position—Electrophysiology

An individual with a strong background in electrophysiology is sought for structure-function studies on a voltage-gated K channel in T-cells, Kv1.3, which is widely regarded as a therapeutic target for immunosuppressive agents. The project involves the use of structurally defined scorpion and sea-anemone peptide ligands of the channel, in combination with electrophysiological, molecular biological, and molecular modeling methods, to map the topology of the ion conduction pathway (e.g., Aiyar et al, Neuron 15:1168-1181, 1995). This information will be used to guide the synthesis and characterization of non-peptide Kv1.3 antagonists that mimic the peptide ligands and take advantage of the four-fold symmetry of the channel.

Send curriculum vitae and references to: K. George Chandy, Department of Physiology and Biophysics (gchandy@uci.edu), Medical School, Room 291, Joan Irvine Hall, University of California, Irvine, CA 92697.

University of California, Irvine is an Equal Opportunity Employer committed to excellence through diversity.
NEW ENGLAND B I O L A B S
Postdoctoral Positions

New England Biolabs, a world leader in the production of restriction endonucleases and other related products for the recombinant DNA field, seeks applicants for:

Biochemist/Geneticist

A postdoctoral fellowship is available in January, 1997 for a recent Ph.D. to study protein splicing. Experience in protein engineering, biochemistry, or genetics is required. The candidate will join our team of researchers working on the control of protein splicing and its applications in protein engineering and genetics. Send a resume and three references to: Dr. Francine Perlman.

Molecular Parasitologist

A postdoctoral fellowship is available now to study filarial immunophenolics, their role in development and as potential targets for chemotherapy. The candidate should have experience in molecular biology and biochemistry. Send a resume and three references to: Dr. Clotilde Carlow.

NEB offers competitive salaries, benefits, and a bonus plan. Attendance at national meetings, publication of research results and open communication is encouraged.

New England Biolabs, Inc.
32 Tozer Road
Beverly, MA 01915
An Equal Opportunity Employer

LEUKEMIA RESEARCH FOUNDATION GRANTS

The Leukemia Research Foundation, Inc. announces that funds are available to support leukemia-related research. The goal of the grant program is to support new investigators; preference will be given to applicants proposing new lines of investigation. Currently two types of grants are being funded: research grants and postdoctoral fellowships. Grants and fellowships are for a one-year period, and may be renewable for a second year. DEADLINE FOR RECEIPT OF COMPLETED GRANT APPLICATIONS IS FEBRUARY 15, 1997.

Research Grant Policies:

1. Eligibility is restricted to investigators who are staff members of a university, hospital, or non-profit research institute. The applicant must be less than five years beyond the end of training at the time of the proposed starting date of the grant award.

2. Maximum budget request is $35,000. The funds may not be used for salary support of the principal investigator.

Postdoctoral Fellowship Policies:

1. Maximum budget request is $23,000. The funds are used for the fellow's salary support.

2. Eligibility is restricted to postdoctoral trainees with a M.D. or Ph.D. degree. The fellow must have no more than three years of postdoctoral training (excluding medical residency) at the time of the proposed starting date of the grant award.

For further information and applications, contact:

Hollis R. Brownstein, Chairman
Medical Advisory Committee
Leukemia Research Foundation, Inc.
4761 West Touhy Avenue, Suite 211
Lincolnwood, Illinois 60646
phone: 1-847-982-1480
fax: 1-847-581-0779

Wanted: Committed, ambitious scientist. Must be a team player with a vision for the future. M.D./Ph.D., Ph.D., M.S. or B.S. degree necessary.

Does this describe you?

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The successful candidate will participate in research, classes, and seminars in atmospheric chemistry for a period of one to two years. A Ph.D. in chemistry or chemical engineering is required, but prior experience in atmospheric chemistry is not. Research areas in which the individual can choose to work include field measurements of hydrocarbons and halocarbons, chemistry of tropospheric chemistry, or laboratory studies of the interaction of oxidant air pollutants with pulmonary surfactant. Participating faculty include Professors F. S. Rowland, J. C. Hemmingson, and B. J. Finlayson-Pitts. Collaborators with other research groups are available as well. Annual stipend is $35,000. Applicants should send their curriculum vitae, including a list of publications, along with the names, addresses (including Email), and telephone numbers of three references by December 15, 1996 to: Michael W. McIvor, Department of Chemistry, University of California, Irvine, CA 92697-2025.

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POSTDOCTORAL POSITION

available immediately for NIH-sponsored project to study eicosanoid biology in the skin. Research projects examine the role of eicosanoids in ultraviolet light induced cutaneous inflammation and skin cancer. Current work focuses on determination of signaling mechanisms in UV induced apoptosis, cell cycle progression, and DNA damage and repair. Mechanisms underlying the regulation of cross talk between prostanoid receptors and the enzymes involved in controlling prostanoid synthesis in the skin are also under study. Techniques used to address these questions include transgenic animals, as well as molecular and biochemical techniques and assays. Applicants should have a strong background in molecular biology.

Send curriculum vitae and names of three references to: Dr. Alice Pentland, Department of Dermatology, P.O. Box 697, 601 Elmwood Avenue, Rochester, NY 14642. FAX: 716-271-4718.

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POSTDOCTORAL POSITION

University of Michigan Medical School

Study the immunological and myelopoietic defects in mice deficient in selectin ligands (see Cell, 86:643, 1996), and in other systems where the function of leukocyte and/or endothelial cell surface glycoproteins is under investigation using molecular, cell biological, transgenic, and gene ablation approaches (see JBC, 270:21437, JBC, 271:5047; JBC, 269:15162). Qualified candidates will possess a Ph.D. and/or M.D. degree, and will have a strong background in biochemistry, genetics, developmental biology, immunology, or myelopoiesis. Send curriculum vitae, letter of application including research interests, and three letters of reference to: University of Michigan Medical School, MSBRI, Attention: Dr. John L. Lowe, Room 3510, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0650. Email: JohnLowe@umich.edu. Equal Opportunity Employer.

NEUROBIOLOGY

A POSTDOCTORAL POSITION is available immediately to join ongoing studies of development and synaptic plasticity in the mammalian spinal cord. The position includes training in intracellular recording and staining techniques in both in vivo and in vivo spinal preparations following injury and in animals genetically modified to alter the production of neurotrophins. This position requires experience in basic electrophysiological recording techniques. Send curriculum vitae and names of three references to: Dr. H. Richard Koerber, Department of Neurobiology, University of Pittsburgh, School of Medicine, Pittsburgh, PA 15261. Email: rkkoerber@pitt.edu. "Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH positions at EPA—Two projects are available at the National Risk Management Research Laboratory (NRML) in Cincinnati. One project is investigating novel, low-cost, high capacity adsorbents for recovery and re-use of metals from industrial process streams. The other is related to environmental synthetic chemistry. Doctoral degree within last three years preferred. Contact: Postgraduate Research Program/NRML, ETD/ORISE, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 423-576-1083. Reference NRML 96-01-02.

POSTDOCTORAL RESEARCH ASSOCIATE position available beginning November 1, 1996, to study anti-hypertensive actions of kappa opioid receptor agonists in rat models of hypertension. Recent doctoral degree in pharmacology or related biomedical field desired. Prefer person experienced with aseptic rat surgery, cardiovascular recording techniques, stereotaxic microinjections in brain, and radiodense receptor binding assays. One-year appointment renewable for a second year. Salary plus fringe benefits commensurate with experience and skills. Send letter of interest with curriculum vitae and names and addresses of three references to: Dr. A. J. Ingentoft, Department of Pharmacology, School of Medicine, East Carolina University, Greenville, NC 27858 U.S.A. An Affirmative Action/Equal Opportunity Employer. Accommodates individuals with disabilities. Applicants must comply with the Immigration Reform and Control Act.

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