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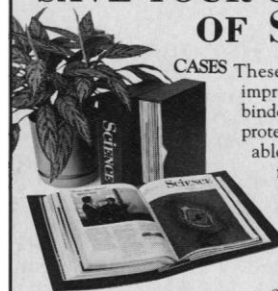


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Monoclonal Antibodies

Four new monoclonal antibodies (mAbs) to adaptins and two new mAbs to Golgi proteins can be used in cell biology studies for protein identification and to understand the roles and relationships of the proteins in the Golgi apparatus. The anti-adaptin mAbs are Anti- α -Adaptin, AP-2 (clone 100/2); Anti- β_1 and - β_2 , AP-1 and AP-2 (clone 100/1); Anti-Assembly Protein AP180, AP-3 (clone AP180-1); and Anti- γ -Adaptin, AP-1 (clone 100/3). These mAbs can be used in immunoblotting of human, bovine, and (except for Anti- α -Adaptin) rat tissue preparations. They can also be used in immunocytochemistry with intact cells (except for Anti- α -Adaptin). The anti-Golgi protein mAbs are Anti-Golgi β -COP Protein (clone M3A5) and Anti-Golgi 58K Protein (clone 58K-9), both of which can be used in immunocytochemistry and immunoblotting. **Sigma Immunochemicals. Circle 140.**

A line of murine mAbs includes antibodies to prolactin, follicle stimulating hormone, leutinizing hormone, ferritin, human growth hormone, thyroid stimulating hormone, immunoglobulin E, and alpha-fetoprotein. These antibodies have applications in fertility assessment, infectious disease research, allergy tests, and

more. They are available as purified antibody, fragmented antibody, or enzyme conjugate. **TSD BioServices. Circle 141.**

In-Transit

Temperature Recorder

The DeltaTRAK In-Transit Temperature Recorder is a reliable, cost-effective time and temperature recording instrument. The compact, single-use recorder documents the environmental conditions encountered during the storage and transportation of temperature-sensitive pharma-



ceutical and biotechnology products. The recorder produces a permanent record that can be used for quality assurance documentation or evidence when filing a claim. **DeltaTRAK. Circle 142.**

Aqueous Mounting Medium

SuperMount is an aqueous-based permanent mounting medium for the slide-mounting of biological specimens. It is suitable for use with most chromogens commonly used in immunohistochemistry and in situ hybridization. It can be used for microscopic evaluation and indefinite storage, including stained tissue sections, cytospin preparations, and blood smears. When applied with a thin coat and allowed to harden, SuperMount forms a transparent coating that permanently preserves stained tissue

sections, which is especially useful for sections to be photographed. It is compatible with most aqueous, organic-soluble, and fluorescent dyes. **BioGenex. Circle 143.**

Peroxidase Substrate

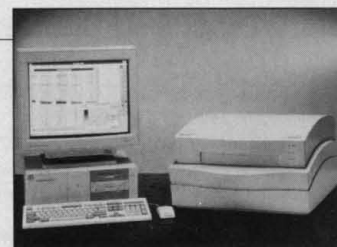
TrueBlue is a peroxidase substrate that produces a permanent blue stain with high contrast and resolution of cellular detail. The substrate offers increased sensitivity and offers cost-per-test savings by allowing the use of higher primary antibody dilutions. TrueBlue is a stable, one component formulation that is not carcinogenic and requires no special disposal procedures. **Kirkegaard and Perry Laboratories. Circle 144.**

Plasmid DNA Purification Kit

PlasmidFast Purification Kit is a fast, easy method for purifying 2 to 10 μ g of plasmid DNA from 1 ml of overnight culture in 30 min. PlasmidFast purifies DNA without the use of phenol, chloroform, or purification resins. DNA purified with the kit is suitable for enzyme digestion, sequencing, or transformation and subcloning. Because the kit does not make use of glass "fines" that can bind to DNA and inhibit later reactions. The method does not require high-speed centrifugation, vacuum manifolds, or organics disposal. **Amresco. Circle 145.**

Fluorescent Sample Analysis Kit

The Vistra FluorImager SI system is for quantitative analysis of fluorescent gels, blots, thin-layer chromatograms, and microplates.



It is smaller overall but holds larger samples than the product it replaces, the FluorImager 575. The new system is controlled from an external Windows workstation. The larger sample capability allows researchers to use the standard, long-format glass-sandwiched gels that are popular for human identification and other one-dimensional gel applications. **Molecular Dynamics. Circle 146.**

Literature

Clontech Catalog 94/95 is filled with more than 1000 products, including hundreds of innovations, such as the Matchmaker Two-Hybrid System, Matchmaker complementary DNA (cDNA) and genomic libraries, 5'-RACE-Ready cDNA, Express-Hyb Hybridization Solution, and TaqStart Antibody for use in hot start polymerase chain reaction. **Clontech Laboratories. Circle 147.**

The Laboratory Notebook is a new quarterly newsletter for the life science researcher that includes product and application stories and a section called "Tips and Techniques," which provides step-by-step and instructional articles in a variety of research disciplines. **Millipore. Circle 148.**

CD-ROM Sourcebook for the Atmospheric, Oceanic, Earth, and Space Sciences is a directory with detailed information on more than 300 CD-ROMs published by more than 70 government agencies, educational institutions, and commercial firms. **MeteoQUEST. Circle 149.**

QED is a catalog from a company that specializes in monoclonal antibody products and hybridoma technologies. **QED. Circle 150.**

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

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POSITIONS OPEN

BIOLOGY (Search continued)

Faculty position available for fall 1995 at the rank of **ASSISTANT PROFESSOR** (tenure-track). Ph.D. required. We seek candidates who demonstrate strong, dynamic teaching skills and will develop an active research program. We also seek candidates interested in participating vigorously in a new environmental science major. Teaching responsibilities include animal physiology, shared responsibility for introductory level biology and environmental science for science majors and non-science majors, and two additional courses depending upon candidate's expertise, such as aquatic biology, physiological ecology or animal behavior. The successful candidate will be comfortable in the field as well as in the laboratory and will develop a research program with both physiological and ecological significance.

Philadelphia College of Textiles and Science (PCT&S) is a fully accredited, four-year, independent, career-oriented institution. Our science department offers B.S. degrees in biology, biochemistry, chemistry, environmental science, physician assistant, applied mathematics and computer science.

Review of applications will begin March 1, 1995. Candidates should submit a letter of application, curriculum vitae, statement of research interests, and names and telephone numbers of three current references to: **Dr. Richard A. Nigro, Vice President for Academic Affairs, Philadelphia College of Textiles and Science, School House Lane and Henry Avenue, Philadelphia, PA 19144.** PCT&S is an Affirmative Action/Equal Opportunity Institution.

BIOLOGY FACULTY POSITION

The University of Pittsburgh at Johnstown invites applications for a tenure-track appointment as **ASSISTANT PROFESSOR** of Biology starting September 1995. Teaching duties: Introductory Biology and other courses that will add to the curriculum in molecular biology. Special interest areas: Molecular genetics, developmental biology, and the application of molecular techniques to organismal, population, or evolutionary biology. Requirements: A Ph.D. in a biological science and a commitment to undergraduate education. The University of Pittsburgh at Johnstown is a comprehensive undergraduate institution that emphasizes teaching and undergraduate research. Applications should be received by February 15, 1995. Send curriculum vitae, transcripts, statement of teaching and research interests, and three letters of recommendation to: **Dr. Dennis McNair, Biology Department, University of Pittsburgh at Johnstown, Johnstown, PA 15904.** Women and minority candidates are urged to apply. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGIST

One-year position at the **ASSISTANT PROFESSOR** level. Responsibilities include: teaching a major portion of a core physiology course; teaching an upper-level neurophysiology course; contribution to a third course; and supervising of student research in physiology. Send statement of teaching and research interest, curriculum vitae, recent reprints, list of relevant courses, and transcript. Please arrange to have three letters of recommendation sent by February 10, 1995, to: **Dr. Susan M. Smith, Department of Biological Science, Mt. Holyoke College, South Hadley, MA 01075.** FAX: 413-538-2327; Email: ssmith@MHC.mtholyoke.edu. Mount Holyoke College is committed to fostering cultural diversity and multicultural awareness in its faculty, staff and students and is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

Research Faculty. Case Western Reserve University's Department of Pediatrics is seeking an **ASSISTANT PROFESSOR** level, monoclonal antibody researcher, with significant experience in epitope mapping of bacterial LPS and cell surface integrins. The successful candidate will have a Ph.D. and postgraduate training in monoclonal antibody production, cell-cell interactions via integrins, as well as the molecular biology of LPS binding to cells. In addition, the candidate will be responsible for directing the NIH-funded monoclonal core facility. Curricula vitae should be sent to: **Dr. John Schreiber, Division of Infectious Diseases, Rainbow Babies and Childrens Hospital, 11100 Euclid Avenue, Cleveland, OH 44106.** Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR in Biomechanics/Motor Learning and Control. Tenure-track; initial two-year appointment in the Department of Movement Sciences and Education. Competencies in computer-based kinematics/kinetic analysis of human movement, ability to use biomechanics as a tool for elucidating processes underlying skill learning, development, or neuromotor control processes. Doctorate required; postdoctoral research training preferred. Research publications should provide evidence of potential for external funding. Responsibilities: teaching graduate courses; directing doctoral dissertation research; maintaining active research program; designing/supervising research in rehabilitation and clinical settings. Review of applications begins January 16, 1995. Send letter of interest, curriculum vitae, statement of research plans, copies of publications, names of three references to: **Professor Gentile, Chair, Movement Sciences Search, Teachers College, Columbia University, Box 199, 525 West 120th Street, New York, NY 10027.** Teachers College is an Equal Opportunity Employer.

CALIFORNIA INSTITUTE OF TECHNOLOGY Assistant Professor in Geophysics

Applications are being accepted for a tenure-track faculty position in Geophysics in the Division of Geological and Planetary Sciences at the **ASSISTANT PROFESSOR** level. Initial appointment is for four years. It is possible that a candidate with exceptional qualifications may be considered for a position at a higher level. Completion of the Ph.D. is required. Candidates of extraordinary ability and potential for innovation and leadership in teaching and research in any area of geophysics are encouraged to apply. We are especially interested in individuals whose research naturally links approaches involving existing or new techniques with existing programs in the Division. Strong interactions with research programs covering the full spectrum of the earth and planetary sciences are encouraged. Areas of interest include: geodesy, mineral and rock physics, physics of earthquakes, and seismology.

A curriculum vitae including a list of publications and a brief description of proposed research activities should be sent to: **Professor E. M. Stolper, Chairman, Division of Geological and Planetary Sciences, 170-25, California Institute of Technology, Pasadena, CA 91125.**

The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Qualified candidates who are women, minority, veterans, or disabled persons are encouraged to apply.

ASSISTANT OR ASSOCIATE PROFESSOR TENURE-TRACK

We are seeking a talented molecular or cellular immunologist who has demonstrated originality in research and who is committed to excellence in teaching. The candidate is expected to develop her/his own externally funded research program. Outstanding facilities and attractive start-up funds are available.

Submit curriculum vitae, statement of research interest and a list of three references to: **Dr. Katherine Knight, Chairperson, Department of Microbiology and Immunology, Loyola University Chicago, Stritch School of Medicine, 2160 South First Avenue, Building 105, Maywood, IL 60153.**

ASSISTANT PROFESSOR CELL BIOLOGY

The University of Nevada, Reno invites applications for a tenure-track position beginning July 1, 1995. Candidates must have a Ph.D. and postdoctoral experience. The successful applicant will develop an active research program based on extramural support and participate in interdepartmental Ph.D. programs. Teaching responsibilities include a microbiology course, upper division, and graduate courses. Research interests in any area of contemporary cell biology will be considered, but investigators working in stress proteins, protein trafficking, or translational control are especially encouraged. Competitive salary and start-up funds. Send curriculum vitae, statement of teaching and research goals, and names and addresses of three references to: **Chair, Search Committee, Department of Biology/314, University of Nevada, Reno, NV 89557-0015** by February 28, 1995.

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Tenure-Track And Postdoctoral Opportunities.

Listed below are a few of the outstanding opportunities for conducting research that are now available at the National Institutes of Health.

Tenure-Track Position Assistant Professor Equivalent

Immunology

Stephen E. Straus, MD

A tenure-track position is available for an MD or MD/PhD scientist to develop an independent research program on the nature and regulation of mucosal immune responses to viruses or bacteria. A record of imaginative bench research is required. Subspecialty training in Allergy/Immunology or Infectious Diseases is desirable. Space, resources, and competitive salary are committed. Applicants must be US citizens or permanent residents. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Laboratory of Clinical Investigation (OE-65), NIAID, Building 10, Room 11N228, 10 CENTER DR MSC 1888, BETHESDA MD 20892-1888.

Postdoctoral Positions

Biochemical Solid State NMR

Robert Tycko, PhD

New solid state NMR methods for studying the structure and dynamics of biochemical systems are being developed. These methods will be applied to the characterization of proteins and polypeptides involved in biochemical signal transduction. Applicants must have exceptional backgrounds in either NMR or biophysical chemistry and have less than five years of postdoctoral experience. Laboratory of Chemical Physics (OE-65), NIDDK, Building 5, Room 112, 5 CENTER DR MSC 0520, BETHESDA MD 20892-0520.

Gene Expression

Richard J. Maraia, MD

The regulation of Alu retrotransposed elements is being studied to better understand the impact of their expression on cell growth. Cloned factors which affect Alu RNA metabolism and regulation of re-initiation by RNA polymerase III are being characterized*. Experience in biochemistry and molecular biology, and less than five years postdoctoral experience, are required. Laboratory of Molecular Growth Regulation (OE-65), NICHD, Building 6, Room 416, 6 CENTER DR MSC 2753, BETHESDA MD 20892-2753.

*(See *Mol Cell Biol* 14:3939 and *Mol Cell Biol* 14:2147)

Human Genetics

Daniel L. Kastner, MD, PhD

Research is primarily directed at understanding the genetic basis of rheumatic diseases. A major objective is the positional cloning of the gene causing familial Mediterranean fever (FMF). Other ongoing projects include the genetic analysis of complex rheumatic diseases and the mutational analysis of amino acid transporters in cystinuria. Applicants must have less than five years of postdoctoral experience. Genetics Section (OE-65), NIAMS, Building 10, Room 9N214, 10 CENTER DR MSC 1820, BETHESDA MD 20892-1820.

Molecular Biology and Genetics

Stephen J. Marx, MD

The genes regulating growth and secretion in endocrine-related tissues are being studied. Emphasis is upon processes whose disruption causes acquired or hereditary disease in man. Major interests include

the parathyroid glands and the fibroblast growth factor gene family. Another interest is multiple endocrine neoplasia type I, as a model for simultaneous dysfunction in several glands. Applicants must have less than five years of postdoctoral experience. Genetics and Endocrinology Section (OE-65), NIDDK, Building 10, Room 9C101, 10 CENTER DR MSC 1802, BETHESDA MD 20892-1802.

Molecular Biology of POU Proteins

W. Scott Young, III, MD, PhD

POU transacting factors within the hypothalamus are under investigation. Problems under analysis include specific POU-protein and POU-DNA interactions and transcriptional regulation of POU genes. Applicants should have a strong background in molecular biology and have less than five years of postdoctoral experience. Laboratory of Cell Biology (OE-65), NIMH, Building 36, Room 2D10, 36 CONVENT DR MSC 4068, BETHESDA MD 20892-4068.

Molecular Endocrinology

Sheue-yann Cheng, PhD

Molecular mechanisms mediating thyroid hormone induced growth, development, and differentiation are being studied with particular emphasis on the interaction of thyroid hormone receptors with the basal transcription factors. The tissue specific factors/adaptors/mediators which regulate the transcriptional activity of the thyroid hormone receptors will also be identified and characterized. A strong background in molecular biology and biochemistry is preferred. Applicants must have less than five years of postdoctoral experience. Laboratory of Molecular Biology (OE-65), NCI, Building 37, Room 2D24, 37 CONVENT DRIVE MSC 4255, BETHESDA MD 20892-4255.

Additional Postdoctoral Fellowship Opportunities

For an on-line listing of additional postdoctoral openings, you may access the NIH EDNET Bulletin Board POSTDOC conference via Internet (wylbur.cu.nih.gov) or modem (1,301-402-2221 or 1,800-358-2221) with parameters set at "7,Even,1". When connected to NIH, type in "vt100" for terminal emulation, "F5E" for initials, and "AJL1" for account number.

The Postdoctoral Research Fellowship Opportunities catalog, which describes intramural laboratories at the NIH, is also available by request. An electronic version of the catalog may be accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (<http://www.nih.gov>). When connected, select *Research Opportunities at the NIH Office of Education*. If you would like to request a catalog or have further questions, please contact the Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, 301-402-1603, Fax 301-402-0483.

To Apply

If you hold a doctoral degree (e.g., PhD, MD/PhD, MD, DO, DDS, DMD or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, *curriculum vitae*, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.



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POSITIONS OPEN

ASSISTANT PROFESSORS PLANT ECOLOGIST FISH ECOLOGIST

The Department of Biological Sciences, Mississippi State University, invites applications for two tenure-track, nine-month **FACULTY POSITIONS** to begin 16 August 1995. We are seeking broadly trained individuals for each position. For at least one position, preference will be given to applicants who use quantitative approaches to study community or ecosystem ecology. The successful applicants will be expected to direct M.S. and Ph.D. students and to develop a strong, extramurally funded research program. Teaching responsibilities include undergraduate and graduate courses in botany, plant ecology, and general ecology for the Plant Ecologist and in zoology, ichthyology, and general ecology for the Fish Ecologist. Qualifications for both positions include a completed Ph.D. in a relevant field and an established record of research productivity; teaching and postdoctoral experience are desirable. Applications should include a curriculum vitae, a concise statement of research and teaching interests, selected reprints, and three letters of reference sent to the Search Committee Chair: **Dr. Michael J. Sullivan, Department of Biological Sciences, P.O. Drawer GY, Mississippi State University, Mississippi State, MS 39762. Telephone: 601-325-7575.** Screening of candidates will begin 15 February 1995 and will continue until both positions are filled. *Mississippi State University is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION THE WEIZMANN INSTITUTE OF SCIENCE

The Department of Biochemistry at The Weizmann Institute of Science, Rehovot, Israel is seeking applicants for a tenure-track position at the **SENIOR SCIENTIST (ASSISTANT PROFESSOR)** level starting in the fall of 1995 or later. The Department of Biochemistry provides an excellent and stimulating research environment with groups conducting research in Molecular Genetics (gene expression, DNA replication and repair) and Bioenergetics (membrane transport systems and photosynthesis). Candidates are sought in these and other areas of biology, preferably with a background in protein-DNA interactions, molecular or developmental genetics, enzymology, or protein structure and biophysical methods. The successful candidate is expected to establish an independent and creative research group. Applications should include research plans, curriculum vitae, list of publications and the names of three references, and should be sent to: **Prof. Zvi Livneh, Head, Department of Biochemistry, Weizmann Institute of Science, Rehovot 76100 Israel.**

ASSISTANT PROFESSOR of Medical Genetics. The University of Pennsylvania School of Veterinary Medicine announces a tenure-track faculty position for a Veterinarian, Ph.D. or M.D. with training in molecular genetics and a commitment to basic research on molecular mechanisms and/or treatment of genetic diseases. Opportunity to participate in an expanding program involving the study of animal homologs of human genetic disease. Clinical experience is desirable. Teaching responsibilities include instruction in medical and molecular genetics in the School of Veterinary Medicine, and the large university-wide biomedical graduate program. Applicants should submit a letter of intent, a statement of personal goals, curriculum vitae, and the names of three references to: **Dr. Donald F. Patterson, Section of Medical Genetics, School of Veterinary Medicine, University of Pennsylvania, 3900 Delancey Street, Philadelphia, PA 19104-6010.**

MOLECULAR BIOLOGY

Pacific University, Forest Grove, Oregon invites applications for an **ASSISTANT PROFESSOR** of Biology for a tenure-track position to begin August 1995. Teach lecture and laboratory courses in Molecular Biology, Genetics and Evolution and General Biology sequence (includes Botany). A broad background in biology, evidence of successful college teaching, and Ph.D. required. Research in molecular biology with undergraduate students expected. Send curriculum vitae, all transcripts, a statement of teaching philosophy, and three current letters of reference by February 22, 1995, to: **Dr. Richard Carter, Department of Biology, Pacific University, Forest Grove, OR 97116. Email: Rich.Carter@PacificU.edu or FAX: 503-359-2933.**

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHYSICAL BIOCHEMISTRY COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Indiana University of Pennsylvania invites applications for a tenure-track position in the Chemistry Department at the **ASSISTANT PROFESSOR** level to begin fall 1995.

Qualifications: The successful candidate will possess a Ph.D. in Biochemistry. Preference will be given to candidates with teaching experience, research interests in theoretical or computational Physical Biochemistry and some postdoctoral experience.

Duties: The candidate's teaching assignments will include introductory chemistry courses for non-science majors, as well as biochemistry courses and possibly a one semester physical chemistry course for biochemistry majors. The candidate will be expected to direct undergraduate and graduate (M.S.) research.

Send application, résumé, and the names, current addresses and telephone numbers of five references (one of whom must be your current employer/supervisor) to: **Dr. Roy W. Harding, Department of Chemistry, Indiana University of Pennsylvania, Indiana, PA 15705. Telephone: 412-357-7798.** Deadline for receipt of application is March 15, 1995.

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

CENTER FOR BEHAVIORAL NEUROSCIENCE SUNY AT STONY BROOK

Inviting applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin in September 1995. Applicants should have the Ph.D. and/or M.D. degree, substantial postdoctoral training, and a proven record of research accomplishment. The successful applicant will establish an independent, funded research program and will participate in the teaching mission of the Center. Researchers with interest in the functional organization of systems involved in vision, memory and emotion, or in human neuroscience, including functional imaging, are particularly encouraged to apply.

Applicants should submit a current curriculum vitae, description of research directions and name, address and telephone numbers of three references to: **Search Committee, Center for Behavioral Neuroscience, SUNY at Stony Brook, Stony Brook, NY 11794-2575.** Closing date for receipt of applications has been extended to February 20, 1995.

The State University at Stony Brook is an Equal Opportunity/Affirmative Action Employer.

TWO TENURE-TRACK POSITIONS ASSISTANT PROFESSOR

Vertebrate Physiologist and Cell Biologist/Biochemist. Faculty are expected to have an active research program, seek external funding, and participate in the training of graduate students. Candidates must be capable of teaching systemic physiology or introductory biochemistry, and at least one of the following: comparative or mammalian physiology, or an advanced course in biochemistry or cell biology. Postdoctoral experience preferred. A statement of research interests, representative recent reprints, curriculum vitae and three letters of recommendation should be sent to: **Dr. Thomas Lonergan, Department of Biological Sciences, University of New Orleans, New Orleans, LA 70148.** Review of applications will begin February 15, 1995. Positions available August 1995. *University of New Orleans is a member of the Louisiana State University System and is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR (Research Series, Grant Funded). Research and teaching job, Ph.D. (Biochemistry). Three years of postdoctoral research experience on GH insensitivity, evaluation of pharmacokinetics, efficacy and long-term replacement therapy. Basic research experience using rodents and non-human primates on pregnancy, fetal growth, and development of IGF axis, and transcriptional, post-translational and hormonal regulation of IGFBP. Three years of teaching research to undergraduate and graduate physicians. Publication of 30 research articles in peer-reviewed journals. Recruitment open 30 days. Send curriculum vitae and three reference letters to: **Dr. R. Rosenfeld, Department of Pediatrics, Oregon Health Sciences University, 3181 SW Sam Jackson Park Road, Portland, OR 97201.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS THE UNIVERSITY OF TEXAS HEALTH CENTER AT TYLER

We are presently searching for faculty members to establish independent research programs in the departments of Biochemistry, Molecular Biology, Microbiology, and Cell Biology. Generous start-up funds and ample research space are available. Appointments may be made at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** levels. Applicants should have a Ph.D. and at least two years of postdoctoral experience. The research institute's emphasis is on research associated with heart and lung diseases and all basic research related to these areas will be considered. Salaries are state-supported and there are minimal teaching requirements. Tyler is an attractive medium-sized city in the region of East Texas characterized by an abundance of forests and lakes approximately 80 miles east of Dallas. Potential candidates with strong scientific credentials should send a curriculum vitae, a brief statement of research interests and goals, and the addresses and telephone numbers of three references to: **Dr. Michael K. Pangburn, Ph.D., Chairman, Search Committee, Department of Biochemistry, The University of Texas Health Center at Tyler, P.O. Box 2003, Tyler, TX 75710-2003.**

An Equal Opportunity/Affirmative Action Employer/Minorities/Female/Veterans/Disabled.

ASSISTANT PROFESSOR ENVIRONMENTAL STUDIES

The Department of Life Sciences at the University of New England invites applications for a full-time (nine-month) tenure-track **FACULTY POSITION** available August 1995. The successful candidate is expected to teach an undergraduate environmental studies course that is linked with general biology in an integrative and interdisciplinary manner, and which is based upon learning community models and active approaches to student learning. Candidates should have interest/experience in teaching and either: (1) a Ph.D. in environmental science or biology/ecology; or (2) a Ph.D. in a public policy area or a law degree with experience in environmental problem-solving. The salary is approximately \$32,900. Send cover letter which includes statement of teaching philosophy, research interests, names of three references, and résumé to: **Mr. Michael Miles, Human Resources, University of New England, Biddeford, ME 04005.** Review of applications will begin on February 27, 1995, and will be accepted until position is filled. *The University of New England is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR—Equine Studies: The Department of Veterinary and Animal Science seeks applicants for the position of Assistant or Associate Professor of Equine Studies. This position is a tenure-track, nine-month academic year appointment. Applicants should have either a Ph.D. in animal science (or related area) or D.V.M. (or equivalent) with emphasis in equines. Postdoctoral experience and/or Board-certification are desirable but not required. Duties include oversight and management of the equine studies program and coordination of the animal operations at the horse farm. The successful applicant will teach courses in equine/livestock studies and animal welfare and ethics. The successful applicant will be part of the graduate faculty and will develop his/her own area of research. The salary is commensurate with qualifications and experience. Those interested should apply by sending a letter of intent together with transcripts, a statement of research and teaching interests, a current curriculum vitae and the names and addresses of four persons who may be contacted for letters of recommendation. These should be sent to: **Dr. Robert Duby, Head, Department of Veterinary and Animal Science, Paige Laboratory, University of Massachusetts, Amherst, MA 01003.** Priority deadline is March 31, 1995; search will remain open until the position is filled. *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR

Penn State, Environmental Resource Management: Teaching (60%) in environmental analysis/impact assessment; research (40%) in aquatic sciences. Required: Ph.D./teaching experience. Available: July 1, 1995. Closing: February 28, 1995. Request complete announcement from: **H. A. Elliott; FAX: 814-863-0109 or Email: hael@oas.psu.edu.**

The Fellowship Program in Academic Medicine for Minority Students

Sponsored by **Bristol-Myers Squibb Company**
Established by **The Commonwealth Fund**

In Recognition of the 1994 Academic Medicine Fellows

The following students were selected from a pool of applicants from 55 medical schools to receive grants for academic medicine and biomedical research.

Angela Alford Indiana, '95	Suzanne Jones Duke, '95
Quentin Allen Duke, '95	Anthony Loffredo UCLA, '96
Tina Antoine-Mandler Iowa, '95	John Lopez Albany, '96
Wayne Berryhill Minnesota, '96	Luis Lovato UCLA, '96
Daria Brooks Case Western Reserve, '96	Daniel Martinez Loyola of Chicago, '95
Duane Bryan Yale, '96	Jennell Nelson Meharry, '96
Eric Burdge Cornell, '95	Frederica Overstreet Washington, '96
Kecia Carroll Vanderbilt, '96	Kathie-Ann Ramsay Columbia P&S, '95
Yvonne Carter Columbia P&S, '95	Ivan Sabio Rochester, '96
Kingsley Chin Harvard, '96	Jose Saldivar Illinois at Chicago, '95
Monica Escarzaga Yale, '96	Wesley Schooler North Carolina, '95
Cheryl Farmer North Carolina, '96	Ezequiel Silva III Baylor, '96
Paul Gladden Columbia P&S, '96	Monica Simmons Albany, '95
Yolanda Heman-Ackah Northwestern, '95	Vincent Smith Stanford, '96
Dora Hughes Vanderbilt, '96	Sean Sue Duke, '95
Tracey Irvin Florida, '96	Pierre Theodore Virginia, '95
Juan Jimenez UCLA, '96	Patricia Turner Bowman Gray, '96
Timothy Johnson Yale, '96	Derrick Wallace Mount Sinai, '96

Sponsored by Bristol-Myers Squibb Company and established by The Commonwealth Fund, the Fellowship Program in Academic Medicine for Minority Students provides opportunities for men and women of four under-represented groups in American medicine (African-American, mainland Puerto Rican, Mexican-American and Native American) to pursue careers in academic medicine and research.

Students honored as fellows receive a stipend to use for a research project under the guidance of experienced biomedical researchers. Fellows present their findings at an annual symposium, providing valuable experience in preparing and discussing research.

Bristol-Myers Squibb Company is a research-based, diversified health care organization specializing in pharmaceuticals, consumer products, nutritionals and medical devices. The Company has supported the Fellowship Program in Academic Medicine for Minority Students since 1990.

The Commonwealth Fund, a national philanthropy located in New York City, was founded in 1918 to enhance the common good. Celebrating its 76th anniversary, the Fund's major programs focus on health, aging and youth issues.

If you are approaching your second or third year of medical school and are of African-American, mainland Puerto Rican, Mexican-American or Native American descent, information can be obtained from: **The Fellowship Program in Academic Medicine for Minority Students, National Medical Fellowships, Inc., 254 West 31st Street, 7th Floor, New York, NY 10001. (212) 714-0933.**



Bristol-Myers Squibb Company

Bristol-Myers Squibb Company continues to show its commitment to quality education and opportunity for minorities through financial support to nonprofit institutions including scientific, medical, educational, charitable and cultural organizations.

POSITIONS OPEN

MOLECULAR/CELL BIOLOGIST PLANT BIOLOGIST

Applications are invited for two positions at the **ASSISTANT PROFESSOR** level. Both positions are two-year appointments with possibility of renewal. Responsibilities include teaching introductory courses for majors and non-majors, directing undergraduate research, and advising.

We seek a Molecular/Cell Biologist from any area of cell or molecular biology with experience in modern techniques to teach the core cell and molecular biology course and course(s) in specialty. We also seek a Plant Biologist with strong computer/quantitative skills to teach general botany, a section of biodiversity, and plant physiology or plant morphology/systematics.

Send curriculum vitae, statement of teaching and research interests, transcripts, and three letters of reference to: **Dr. Terry Matthews, Department of Biology, Millikin University, Decatur, IL 62522. Email: tmatthews@mail.millikin.edu.** Review of applications will begin February 6, 1995, and will continue until the positions are filled. *An Equal Opportunity Employer.*

Cell or Molecular Biologist (No. 20828). The Department of Biological Sciences at the University of Northern Colorado, invites applicants for a tenure-track appointment as **ASSISTANT PROFESSOR**. Candidates will have a Ph.D. degree from an accredited institution with emphasis in cell or molecular biology, molecular genetics or microbiology. Excellence in teaching and an active research program are expected, and postdoctoral experience is preferred. Teaching experience in cell biology, molecular biology, molecular genetics or microbiology is desirable. Applications must include: cover letter, curriculum vitae, teaching philosophy, research experience and plan, official graduate transcripts, and three letters of recommendation with at least one addressing teaching ability. Complete applications must be postmarked by March 1, 1995. Send applications to: **Drs. D. E. Bebout or S. P. Mackessy, Department of Biological Sciences, University of Northern Colorado, Greeley, CO 80639. Telephone: 303-351-2921; FAX: 303-351-1085; Email: debbout@blue.univnorthco.edu or smackessy@golding8.univnorthco.edu.** This position is contingent on funding. *The University of Northern Colorado is an Affirmative Action/Equal Opportunity Employer and especially encourages applications from women and minorities.*

FACULTY POSITION VIROLOGIST/IMMUNOLOGIST

Johns Hopkins University School of Public Health has an **ASSISTANT** or **ASSOCIATE PROFESSOR** opening for an M.D. or Ph.D. scientist with research interests and experience in evaluating humoral/mucosal immunological responses to and correlates of protection conferred by virus vaccines. Candidates must have demonstrated excellence in independent research. The successful candidate would join a faculty active in research on the development of vaccines to protect against respiratory viruses and other mucosal pathogens. This position involves the conduct of independent and collaborative research, and teaching and training graduate students in the Departments of International Health (Division of Vaccine Sciences) and Molecular Microbiology and Immunology. Send letter of application, including current and future research plans, curriculum vitae and names and addresses of three references to: **Mary Lou Clements, M.D., M.P.H., Director, Johns Hopkins University Center for Immunization Research, Room 125, 624 North Broadway, Baltimore, MD 21205. Telephone: 410-955-4376. FAX: 410-550-6898.**

ELECTROPHYSIOLOGIST

TENURE-TRACK FACULTY POSITION in the Department of Psychiatry and Human Behavior, Division of Neurobiology and Behavior Research at the University of Mississippi Medical Center. Candidates should have a Ph.D. and/or M.D. degree. Preference will be given to candidates with expertise in *in vivo* neuronal electrophysiology, interest in CNS-active drugs and a funding track record. Adequate space and start-up funds are available. Salary commensurate with experience. Applicants should submit a curriculum vitae and a statement of research interests and names of three references to: **Dr. Angelos Halaris, Chairman, Department of Psychiatry and Human Behavior, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216.** *Equal Opportunity Employer, Male/Female/Disabled/Veterans.*

POSITIONS OPEN



FRED HUTCHINSON CANCER RESEARCH CENTER

FACULTY POSITION DIVISION OF BASIC SCIENCES

The Division of Basic Sciences of the Fred Hutchinson Cancer Research Center (FHCRC) is soliciting applications to fill an open **FACULTY POSITION**. Depending upon the qualifications of the successful applicant, the level of the appointment may be at either the Assistant, Associate or Full Member level. Applicants with demonstrated research competence in any field of modern molecular and cellular biology will be considered. Applications for appointment at the Assistant and Associate Member levels will be received until March 1, 1995. Applications at the Full Member level will be received until the position is filled. Candidates should send a curriculum vitae, a concise statement of their research plans, and three letters of reference to: **New Staff Committee, Fred Hutchinson Cancer Research Center, Division of Basic Sciences, B1-030, 1124 Columbia Street, Seattle, WA 98104.** *FHCRC is an Equal Opportunity Employer committed to work force diversity and provides a smoke-free environment.*

DEPARTMENT HEAD FOREST ENGINEERING OREGON STATE UNIVERSITY

Applications to lead educational and research programs in forest resource operations are invited. Requires a doctoral degree in forestry, hydrology, engineering or a related field; an understanding of education and research concerns in the forest environment; and an ability to interact effectively with others. Position available 1 September 1995.

Applications, including curriculum vitae and three references, will be received until 15 March 1995, or until the position is filled, and may be directed to: **Dr. Paul W. Adams, Forest Engineering Department, OSU, 213 Peavy, Corvallis, OR 97331-5706. Telephone: 503-737-4952.** *Oregon State University is an Affirmative Action/Equal Opportunity Employer and is responsive to the needs of dual-career couples.*

UNIVERSITY OF LOUISVILLE SCHOOL OF MEDICINE Department of Microbiology and Immunology

A tenure-track **FACULTY POSITION** in Molecular Immunology is available for the fall of 1995. The level of appointment is open, and the salary will be commensurate with experience. Candidates should hold a Ph.D., M.D. or equivalent degree, have at least two years of postdoctoral research experience, and have demonstrated research expertise and productivity in molecular aspects of immunology or related areas. The successful applicant will receive good start-up support, and will be expected to carry out an active, independent research program. Candidates will also be expected to participate in the teaching of immunology to medical, dental, and graduate students. Send a curriculum vitae, statement of research interests, and the names of three references to: **Dr. Richard D. Miller, Acting Chairman, Department of Microbiology and Immunology, School of Medicine, University of Louisville, Louisville, KY 40292.** *An Equal Opportunity/Affirmative Action Employer.*

NATURALIST AND DEPARTMENT CHAIR Hendrix College

Applications or nominations are sought for a broadly trained field biologist to teach five undergraduate courses per year in the area of botany, ecology and evolution. Preference will be given for experience as departmental chair, in directing undergraduate research and in obtaining outside funding. Rank and salary commensurate with experience. Send three letters of recommendation; curriculum vitae; transcripts; statements of your teaching philosophy, interest in undergraduate research, and interest in administration to: **Dr. Bruce Haggard, Search Committee, Department of Biology, Hendrix College, 1601 Harkrider, Conway, AR 72032. Email: Haggard@alpha.hendrix.edu.** Applications accepted through February 15, 1995. *Hendrix College is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITION Massachusetts General Hospital Harvard Medical School Cutaneous Biology Research Center

The Cutaneous Biology Research Center (CBRC) seeks a molecular, cellular or developmental biologist to establish a program in fundamental research relevant to skin pigmentation. Areas of research can include but are not limited to pigment synthesis and transfer in melanocytes, genetics of mouse coat color and development/migration of neural crest cells. Applicants must have a Ph.D. and/or M.D. degree and relevant postdoctoral experience. Only applicants with a strong research record and the potential to develop extramurally supported research programs will be considered. Individuals with a demonstrated ability to develop imaginative approaches to important biological questions are particularly encouraged to apply. Rank/salary/start-up funds and space are negotiable depending on experience and qualifications. The CBRC occupies 45,000 square feet of fully equipped laboratory space in a new multidisciplinary research facility.

Interested individuals should send curriculum vitae, reprints, a statement of research and future directions, along with the names, addresses and telephone numbers of three references to:

**Paul F. Goetinck, Ph.D.
Chair, Faculty Search Committee
Cutaneous Biology Research Center
Massachusetts General Hospital-East
Building 149, 13th Street
Charlestown, MA 02129**

The Massachusetts General Hospital/Harvard Cutaneous Biology Research Center is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, disabled and veterans are encouraged to apply.

CHAIRPERSON Department of Microbiology and Immunology Uniformed Services University of the Health Sciences

The F. Edward Hébert School of Medicine of the Uniformed Services University of the Health Sciences (USUHS) invites nominations and applications for the position of **PROFESSOR** and **CHAIRPERSON**, Department of Microbiology and Immunology. The Department has particular research strengths in molecular mechanisms of microbial pathogenesis and host responses to infectious diseases. It participates in the education of medical students, Ph.D. candidates in programs encompassing bacteriology, immunology, virology, and parasitology, and interdisciplinary subjects, and postdoctoral fellows. USUHS provides a strong environment for academic growth and excellence. Applicants for this position must have a doctoral degree (Ph.D., M.D., or equivalent). They should demonstrate an outstanding record of research accomplishment, strong commitment to excellence in education, successful experience as a mentor for junior faculty, and proven administrative and managerial skills. The new Chairperson will be expected to build upon the existing strengths of the Department while adding new depth and dimension to the Department's activities. Review of applications will begin in February 1995; applications should be received by March 10, 1995. Applicants should submit a curriculum vitae with bibliography and history of grant support, a cover letter describing their investigative, didactic, and administrative experiences, and the names of three references to: **Brian M. Cox, Ph.D., Chairman, Search Committee, Uniformed Services University of the Health Sciences, Attention: CHR (MI), 4301 Jones Bridge Road, Bethesda, MD 20814-4799.** Nominations for the position are also invited. Foreign nationals will be considered only if qualified United States citizens are not available. *USUHS is an Equal Opportunity/Affirmative Action Employer strongly committed to racial, cultural, and ethnic diversity.*

Plant Ecology. The HUXLEY RESEARCH INSTRUCTORSHIP is a two-year position combining research and modest teaching. We seek someone to collaborate on studies of coastal-plain forest dynamics or woody plant demography using a substantial permanent-plot database. Modeling or GIS experience desirable but not essential. Send curriculum vitae, brief statement of teaching and research interests, and three letters of reference to: **P. A. Harcombe, Search Committee, Department of Ecology and Evolutionary Biology, Rice University, P.O. Box 1892, Houston, TX 77251, by March 1, 1995.** *Women and minorities are encouraged to apply. Rice University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS IN OCEANOGRAPHY

Skidaway Institute of Oceanography (SkIO) seeks to fill several positions at the **ASSISTANT PROFESSOR OR POSTDOCTORAL** level. The successful candidates will be expected to develop their own research programs, and participate in collaborative studies of biogeochemical cycling or physical-biological-chemical couplings in estuarine, coastal or shelf environments. SkIO is uniquely situated on the Intracoastal Waterway, near Savannah, Georgia, giving access to a variety of estuarine and continental shelf environments. SkIO is a research unit of The University System of Georgia.

MARINE MICROBIAL ECOLOGIST. Applications are encouraged from scientists with expertise in water column and/or benthic processes, and who are able to conduct field as well as experimental studies. Scientists with broad backgrounds and wide ranges of interest are encouraged to apply, especially those with training or demonstrated expertise in molecular approaches.

PHYSICAL OCEANOGRAPHER. Applications are encouraged from scientists with expertise in theory, modelling, or field or laboratory measurement, especially as related to coastal physical processes.

BENTHIC BIOLOGICAL OCEANOGRAPHER. Applications are encouraged from scientists interested in conducting innovative research in marine benthic biology. Scientists with a demonstrated interest in process-oriented research and the interactions between benthic fauna and geochemical and physical processes are encouraged to apply.

MARINE ORGANIC CHEMIST. Applications are encouraged from scientists who can carry out innovative research into the sources, behavior and biogeochemical cycling of organic matter, preferably at the molecular level, in water column and/or sedimentary marine systems.

ENVIRONMENTAL ORGANIC CHEMIST. Applications are encouraged from scientists who can carry out research on organic contaminants in the marine environment, including the development of analytical techniques. Scientists with a background in ecotoxicology are especially encouraged to apply.

Applications will be accepted through 15 March 1995, and should include a statement of research interests, a CV, and names of at least three references. Send applications to: Director, Skidaway Institute of Oceanography, 10 Ocean Science Circle, Savannah, Georgia 31411 (FAX: 912-598-2310). *Skidaway Institute of Oceanography is an equal opportunity/affirmative action employer.*

Dean Division of Natural Sciences, Mathematics, and Engineering

The University of Denver is a major, private, doctorate-granting institution, established in 1864 and enrolling more than 8,000 students. It is financially healthy and programmatically vibrant. The Division of Natural Sciences, Mathematics, and Engineering has approximately 65 full-time faculty, enrolls 540 undergraduate and 150 graduate majors, and carries out sponsored research totaling approximately \$4.8 million annually. Departments are biological sciences, chemistry, geography, engineering, mathematics and computer science, and physics and astronomy. Interdepartmental programs include environmental science and materials science.

The Dean is responsible for the intellectual and administrative leadership of the Division and reports directly to the Provost of the University. The Dean must be committed to excellence in both graduate and undergraduate education and in research, to working effectively with other areas of the University, to the enhancement of student recruitment strategies, and to professional and community outreach.

The candidate should have

- a commitment to high intellectual and ethical standards
- a substantial record of experience and accomplishment in both teaching and research
- experience with curricula to provide science education to non-science majors
- strong organizational, administrative, and communication skills
- an earned doctorate in one of the disciplines of the Division
- experience in fund raising and promoting grant-sponsored research
- a record of high achievement commensurate with appointment as a tenured full professor in one of the departments in the Division.

Nominations and applications must include a cover letter, current resume, and the names and telephone numbers of five references who may be called. Applicants should also be prepared to send five letters of reference upon request. To ensure full consideration, apply by February 15, 1995. The position will become available July 1, 1995. Submit materials to Provost William Zaranka, University of Denver, Denver, Colorado, 80208 (Attention: NSME Dean Search).



UNIVERSITY of DENVER

*The University of Denver is an affirmative action and equal opportunity employer.
Women and minorities are encouraged to apply.*

Molecular Biologist

National Institutes of Health

Molecular Biologist needed with experience in cloning, sequencing, and expression of rotavirus genes. Also required is experience in the structure - function analysis of rotavirus proteins and elucidation of the role of individual rotavirus proteins in virus replication and morphogenesis. This is a tenured position. Position targeted for EEO recruitment efforts. U.S. citizenship required.

Salary range: \$51,557 to \$67,021

Qualified and interested scientists should send their curriculum vitae and names and addresses of three (3) references to: Joann Martin, NIH, Bldg 31, Room 7A27, 9000 Rockville Pike, Bethesda, MD 20892; Fax: (301) 496-1940

Applications will be accepted for two weeks only after the last publication.

NIH is an Equal Opportunity Employer

Manager, Research Computing Services

Amgen, the world's largest independent biotechnology company, seeks a Manager of Research Computing Services for its Southern California headquarters.

We are looking for an applicant who has a BS in the life sciences, computer sciences, or a related field; or who has an equivalent combination of education and experience. Candidates should also have at least 5 years' progressive experience in information systems project management, planning, and budgeting; and have excellent staff development and communication skills. The ideal candidate will possess an MBA or PhD and 7 or more years' experience managing research support information systems; be skilled at systems consulting, have background in pharmaceutical R&D, and experience supporting diverse research centers.

At Amgen, you'll find our approach as rewarding as it is effective. We offer a highly competitive compensation and benefits package. Please mail your resume to: Amgen Inc., Staffing, Job Code: OXP-SC-2193, Amgen Center, Thousand Oaks, CA 91320-1789. Principals only, please. For information on other opportunities available at Amgen, please call 1-800-446-4007. Amgen reserves the right to fill vacancies at its discretion; therefore, we cannot ensure that a given position will be available when you apply. EEO-Affirmative Action Employer M/F/D/V. We recognize that diverse perspectives are a key factor in the process of discovery.

AMGEN®
Discover a unique approach

POSITIONS OPEN

MONMOUTH COLLEGE BIOLOGY CHAIR

Applications are invited for a tenure-track appointment at the Associate or Full Professor level as Biology Department **CHAIR**. Candidates are required to have the Ph.D. with a specialty in Biochemistry/Physiology, appropriate teaching experience, a strong publications record, and administrative experience necessary to lead a thriving undergraduate department and to develop and implement a Master's degree program. The initial term of appointment as Biology Chair will be for three years, depending on the successful candidate's qualifications and experience, with reappointment as chair possible.

Monmouth College is located in scenic and historic Monmouth County, one mile from the Atlantic Ocean and fifty miles south of New York City.

Applicants should submit résumés to: **Dr. Ivan Gepner, Associate Dean, School of Arts and Sciences, Monmouth College, West Long Branch, NJ 07764.** Deadline for receipt of applications is March 1, 1995. *Women and minorities are encouraged to apply. Monmouth College is an Affirmative Action/Equal Opportunity Employer.*

DEVELOPMENTAL BIOLOGIST

The Biology Department at The Citadel invites applications for a three year **FACULTY POSITION** in developmental biology for the fall 1995 semester. The Citadel is a nationally recognized comprehensive, military college. The student body includes 2,000 full-time undergraduate cadets and 900 part-time graduate and undergraduate evening students. Applicants should have a Ph.D. in biology or a related field and should be committed to teaching and research in an undergraduate liberal arts institution. A research program suitable for the involvement of undergraduates is desired and some internal support funds are available. Primary responsibilities will be teaching upper-level developmental courses (animal/plant) and participating in the department's introductory courses. Please send a letter of application to include a synopsis of teaching and research interests; curriculum vitae; selected reprints; and names, addresses, and telephone numbers of three references to: **Dr. Robert E. Baldwin, Department of Biology, The Citadel, Charleston, SC 29409. Telephone: 803-953-7872.** Application review will begin on February 20, 1995, and will continue until the appointment is made. *The Citadel is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from minorities and women.*

FACULTY POSITIONS DEPARTMENT OF PATHOLOGY Texas A&M College of Medicine

Individuals with demonstrated ability to support a research program in biomedical sciences are encouraged to apply for tenure-track positions in an experimental pathology department responsible for teaching and research. Current interests include endothelial cell biology, oncogenes, and mechanisms of metastasis. The ability to teach general pathology is helpful. Financial support is available to initiate and support a research program for young investigators. Please apply to: **Dr. Julius A. Gordon, Head, Texas A&M University Health Science Center, Department of Pathology and Laboratory Medicine, 208 Reynolds Medical Building, College Station, TX 77843-1114.**

ANATOMIST/NEUROSCIENTIST BOSTON UNIVERSITY

The Department of Health Sciences, Sargent College, Boston University, seeks an individual with background in Human Anatomy/Neurosciences for a tenure-track position at the rank of **ASSISTANT PROFESSOR**. Doctoral degree and strong research background required. Teaching responsibilities include core courses in Gross Anatomy and Neuroanatomy, and graduate student advising at the Master's and doctoral level. The successful candidate will be expected to develop an active extramurally funded research program in area of interest. Salary will be commensurate with qualifications. Applicants should submit a letter of application, curriculum vitae and three letters of reference to: **Chair, Health Sciences Search, Boston University, 635 Commonwealth Avenue, 4th floor, Boston, MA 02215.** Review of applications will begin March 1, 1995. *Boston University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

Cell Biologist: A tenure-track **FACULTY POSITION** is available for a scientist with expertise in one or more of the following fields as they apply to cancer: biochemistry, cellular and molecular biology, genetics, radiation oncology, cellular physiology and/or pharmacology. This person will collaborate with an interdisciplinary team of scientists on applications of NMR spectroscopy and imaging to cancer. Ability to develop an independent yet interactive research program and compete for external funding is essential. Salary and level of appointment will be commensurate with qualifications. Contact: **Dr. Jerry Glickson, Department of Radiology, The Johns Hopkins School of Medicine, Traylor Building, Room 208B, Baltimore, MD 21205.** *Johns Hopkins is an Equal Opportunity/Affirmative Action Employer.*

The Department of Cell Biology, Georgetown University Medical Center invites applications from qualified (Ph.D., M.D. or equivalent) candidates for a position of **ASSISTANT PROFESSOR** (tenure-track). The committee is particularly interested in receiving applications from individuals with an interest in molecular and cellular aspects of Developmental Biology although excellence is considered more important than specific research area. The Department has major strengths in Developmental/Reproductive Biology, Neuroscience and Tumor Biology with specific interests in growth factor biology, signal transduction/transcriptional regulation, steroid synthesis and action, cell adhesion, extracellular matrix remodeling, stem cell biology and nervous system development and regeneration. The successful candidate will be expected to establish a strong extramurally funded research program, interact with faculty with similar interests and to participate in the teaching of medical and graduate students. Applicants should submit by March 15, 1995, six copies of a curriculum vitae and statement of research interests, no more than three reprints, and names, addresses and telephone/FAX numbers of three individuals who may be contacted for letters of reference to: **Chair, Search Committee, Department of Cell Biology, Georgetown University Medical Center, 3900 Reservoir Road, N.W., Washington, DC 20007.** *Georgetown University is an Equal Opportunity/Affirmative Action Employer.*

MOLECULAR/CELL BIOLOGY ASSISTANT PROFESSOR

Tenure-track faculty August 1995. Teach undergraduate biology: cellular and molecular biology/physiology; microbiology; immunology; freshman biology. Develop advanced cellular/molecular biology course. Involve undergraduates in research, advise biology majors. Ph.D. and successful undergraduate teaching experience required. Founded in 1880, Bridgewater College is an independent, co-educational, liberal arts college in the Shenandoah Valley of Virginia, historically affiliated with the Church of the Brethren with enrollment of 950 students. Application review begins March 1, 1995. Send application letter, curriculum vitae, transcripts, evidence of teaching effectiveness and three letters of reference to: **Dr. Lee M. Yoder, Dean for Academic Affairs, Bridgewater College, Bridgewater, VA 22812-1599.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION to study transmembrane receptor mediated signal transduction mechanisms involved in the regulation of phospholipases coupled to the release of arachidonic acid in cells transfected with wild type and mutated receptors and signaling elements. Applicants must have a Ph.D., M.D. or D.V.M. degree with experience in cell culture and in the area of molecular biology. Please send curriculum vitae and the names of three references to: **Dr. K. U. Malik, Department of Pharmacology, University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163. Telephone: 901-448-6075; FAX: 901-448-7300.** *An Equal Employment Opportunity/Title IX/Section 504/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE position available for studies of biochemistry and chemistry of sterols and sphingolipids. Ph.D. in biochemistry or bioorganic chemistry. Significant experience with bioanalytical techniques and radioactive and stable isotope methodologies desirable. Send curriculum vitae and names of three references to: **G. J. Schroepfer, Jr., Department of Biochemistry and Cell Biology, Rice University, P.O. Box 1892, Houston, TX 77251.** *Rice University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION

Molecular Virology Evolution Of Drug Resistant Mutations In HIV

Applicants are sought to participate in a major program to define and understand the genetic, virological, and enzymological basis of reduced susceptibility to drug therapy in HIV disease. Research will focus on generation and characterization of infectious HIV variants with altered susceptibility to inhibitors of the virally encoded protease. The Fellow will investigate and define genotypic and phenotypic changes in HIV growing in a variety of selective environments, including infected patients undergoing therapy. He/she will interact with a multidisciplinary team of biologists, chemists and clinicians focused on discovery and development of novel anti-HIV therapeutics. The ideal candidate will have a Ph.D. or M.D. with a strong background in molecular genetics and/or virology. Interested applicants should send curriculum vitae, statement of research interests and names of three references to: **Mary Jeannette, The DuPont Merck Pharmaceutical Company, Postdoctoral Program, Position No. 95-LTB, P.O. Box 80353, Wilmington, DE 19880-0353.** *An Equal Opportunity Employer/Minorities/Female/Disabled/Veterans.*

POSTDOCTORAL POSITION

Molecular And Structural Biology HIV Processing And Assembly

A **POSTDOCTORAL POSITION** is available immediately for a self-motivated Ph.D./M.D. to investigate the structural basis for HIV nucleocapsid-RNA interactions and their role in processing by the HIV protease and in virion assembly (see Sheng and Erickson-Viitanen, *J. Virology*, 68:6207-6214, 1994). The Fellow will interact with a multidisciplinary team of structural biologists, molecular biologists and virologists. Applicants should have experience in protein purification and characterization and interest/experience in protein crystallography. Interested applicants should send curriculum vitae, statement of research interests, and names of three references, to: **Mary Jeannette, The DuPont Merck Pharmaceutical Company, Postdoctoral Program, Position No. 95-SEV, Experimental Station, P.O. Box 80353, Wilmington, DE 19880-0353.** *An Equal Opportunity Employer/Minorities/Female/Disabled/Veterans.*

POSTDOCTORAL POSITION available immediately to study molecular mechanisms in presynaptic regulation using confocal microscopy of individual isolated brain nerve terminals. Background in biochemistry and/or molecular neuroscience desirable. Send curriculum vitae to: **Robert A. Nichols, Ph.D., Department of Pharmacology, Medical College of Pennsylvania and Hahnemann University, 3200 Henry Avenue, Philadelphia, PA 19129. FAX: 215-843-1515.** *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION HEMATOPOIETIC CELL SIGNALING

Available immediately to study protein tyrosine kinases in myeloid cell proliferation (*EMBO J*, 12:2681, 1993; *PNAS*, 91:4683, 1994). Projects involve the use of transgenic mice, ES cell manipulation, and yeast two-hybrid system. Pittsburgh has been ranked one of the most livable cities in the United States. The Pittsburgh Cancer Institute is among the leaders of biomedical research. FAX curriculum vitae, research experience, and references to: **Seth Corey, M.D., Division of Hematology-Oncology, Children's Hospital of Pittsburgh, 3705 Fifth Avenue, Pittsburgh, PA 15213. FAX: 412-692-6637; Email: corey@med.pitt.edu.**

Children's Hospital is an Equal Opportunity Employer.

RETINAL ELECTROPHYSIOLOGIST

A **POSTDOCTORAL POSITION** is available immediately to study the ionic conductances of isolated retinal cells from primates and amphibians with an emphasis on calcium dynamics using functional imaging of calcium-sensitive indicators. Experience in electrophysiology and tissue culture desirable. Send curriculum vitae, summary of relevant research and/or representative publications and the names of three references by February 28, 1995, to: **Peter R. MacLeish, Ph.D., Margaret M. Dyson Vision Research Institute, Department of Ophthalmology, Cornell University Medical College, 1300 York Avenue, New York, NY 10028.** *Committed to Equal Opportunity.*

POSTDOCTORAL POSITIONS

National Institute of Allergy
and Infectious Diseases

National Institutes of Health
Announcement No. : PA-14

Postdoctoral Positions are available to study antigen processing/MHC recognition and NK recognition; structure/function of integrins; $\gamma\delta$ T cells; and transcription factors of immune relevance. Applicants must have less than three years of postdoctoral experience. Salary range \$25,000 to \$30,000, depending on experience.

Qualified and interested candidates should send curriculum vitae and names and addresses of three (3) references to:

John E. Coligan, Ph.D.
Chief, Laboratory of Molecular Structure
National Institute of Allergy and
Infectious Diseases
National Institutes of Health
Twinbrook II
12441 Parklawn Drive, Room 103
Rockville, MD 20852-1727



(301) 496-3213 phone
(301) 402-0284 fax

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ASSOCIATE DIRECTOR MATTHAEI BOTANICAL GARDENS

University of Michigan

The University of Michigan's Matthaei Botanical Gardens invites applications for the position of **Associate Director**. The Associate Director provides the ongoing administrative supervision to the programs of education, research and public outreach. Preference will be given to candidates with demonstrated management skills including supervision of budgets and personnel, an understanding of the business operations of a research university, and advanced training in the plant sciences; Ph.D. preferred. A familiarity with issues of biodiversity, conservation and horticulture is necessary. The position is available immediately and applications will be accepted until the position is filled. Applicants should send a curriculum vitae, statement of interest, and names and telephone numbers of four references to:

Dr. J. A. Teeri, Department of Biology, Natural Science Building, University of Michigan, Ann Arbor, MI 48109. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.



The University of Michigan
Human Resources / Affirmative Action



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As a part of a team responsible for the generation of monoclonal antibodies. The ideal candidate should have experience in immunization protocols, hybridoma generation, screening methodologies and antibody characterization. Experience in molecular biology, especially in phage antibody combinatorial libraries, would be advantageous. **Code PM001**

Atherosclerosis

The selected candidates will study the pathophysiology of genes involved in the development of atherosclerosis. Experience using state-of-the-art molecular biology techniques, such as gene knock out, eukaryotic gene expression, in situ hybridization, mammalian tissue culture and lipoprotein analysis is desirable. Molecular Biology laboratory experience is required. **Code OF002**

In addition to opportunities to interact with one of the world's finest corporate scientific communities, you will enjoy the many cultural, recreational and educational advantages easily accessible to our scenic southeast Connecticut location. We offer an excellent compensation and benefits package that includes comprehensive relocation assistance.

For confidential consideration, please send your curriculum vitae, identifying your position of interest with proper code, to: **Employee Resources Dept., Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340.**

We are an equal opportunity employer. M/F/D/V.



Central Research

POSITIONS OPEN

POSTDOCTORAL POSITION IN MOLECULAR ONCOLOGY

A POSTDOCTORAL POSITION is available immediately to work on the regulation of cell growth and differentiation by interferon-regulated proteins. Experience in biochemistry and molecular biology is essential. Experience with eukaryotic expression systems will be advantageous. One year contract renewable for a second year. Salary will be according to qualifications and experience.

Please send a curriculum vitae and three letters of recommendation to: **Dr. A. E. Koromilas, Lady Davis Institute for Medical Research-McGill University, Jewish General Hospital, 3755 Côte Ste-Catherine Street, Montreal, Quebec H3T 1E2 Canada. Telephone: 514-340-8260, ext. 4504; FAX: 514-340-7576.** Closing date is March 15, 1995. *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and landed immigrants.*

POSTDOCTORAL POSITION

A POSTDOCTORAL POSITION is available immediately at the Dana-Farber Cancer Institute. The project involves studying the interaction of retroviruses with cells and host organisms, and the generation and evaluation of DNA vaccines to prevent retroviral infection and disease. We are seeking a molecular biologist with expertise in studying gene expression systems; working knowledge of immunology is highly desirable. Send curriculum vitae and names of three references to: **Dr. Ruth M. Ruprecht, Chief, Laboratory of Viral Pathogenesis, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115 USA. Dana-Farber Cancer Institute is an affiliate of Harvard Medical School; Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.**

POSTDOCTORAL POSITION in Plant and Animal Interactions is available June 1995 to study the interactions of goldenrods, a gallmaking insect, and its natural enemies (*Evolution*, 47:1696-1710; 46:1674-97; 44:1648-55; *Oecologia*, 90:323-332). Areas of interest include host-plant formation and speciation, host-plant resistance particularly terpene chemistry, host-plant association and taxonomy, herbivore impacts on hosts, population regulation, and genetics. Send curriculum vitae and names of three references by 1 March 1995 to: **Dr. Warren Abrahamson, Department of Biology, Bucknell University, Lewisburg, PA 17837. Email: abrahamsn@bucknell.edu. Bucknell University seeks academic excellence through diversity. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately to participate in the study of megakaryocyte differentiation and signal transduction using cultured human cell lines as a model system (see *Oncogene*, 9:1407; *In Vitro Cell Dev. Biol.*, 30A:803). In particular the analysis of gene expression during differentiation will be explored. Recent Ph.D. with experience in molecular biology and cell culture techniques preferred. Send curriculum vitae and the names of three references to: **Dr. Michael Lieberman, Department of Molecular Genetics, Biochemistry, and Microbiology, University of Cincinnati College of Medicine, 231 Bethesda Avenue, Cincinnati, OH 45267-0524. Telephone: 513-558-5645; FAX: 513-558-8474; Email: Lieberman@ucbeh.san.uc.edu.**

POSTDOCTORAL POSITION

A POSTDOCTORAL POSITION is available to study regulation of *MDR1*/P-glycoprotein expression in cancer cells. Applicants should have a Ph.D. in Molecular Biology or related fields and documented knowledge of the latest techniques of molecular and cell biology. Experience in MDR research and molecular genetics and Swiss citizenship are a plus. Candidates should submit curriculum vitae, bibliography, selected reprints and names of three references to: **Dr. Manfred Lehnert, Cancer Research Laboratory, Department C of Internal Medicine, Kantonsspital St. Gallen, CH-9007 St. Gallen, Switzerland. FAX: (41) 71 25 68 05.**

POSTDOCTORAL POSITION, available in biophysics to study the mechanism of electron transfer and redox-linked proton pumping in mitochondrial respiration. Ph.D. in Chemistry or Biochemistry is required. Experience in protein biochemistry and laser spectroscopy and/or photochemistry is desirable. Start date will be between February and March 1995. Send a curriculum vitae and three letters of recommendation by February 10, 1995, to: **Dr. Olaf Einarsdóttir, Department of Chemistry and Biochemistry, University of California, Santa Cruz, CA 95064.**

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study gene expression in human and animal models of hepatocellular carcinoma. Projects will focus on characterizing marker genes for hepatoma as well as investigating the role of G-proteins and other areas of signal transduction in cancer biology. Candidates with working experience in cell culture, various blotting techniques, *in situ* hybridisation, RT-PCR and differential display using PCR are encouraged to apply. Send curriculum vitae with bibliography, description of research experience, and names of three referees to: **Dr. James V. Sitzmann, Department of Surgery, Division of Surgical Oncology, Johns Hopkins Medical Institutions, Ballock 665, 600 North Wolfe Street, Baltimore, MD 21287. Email: jsitzmann@welchlink.welch.jhu.edu.**

POSTDOCTORAL POSITION available immediately for recent Ph.D. interested in telomere biochemistry. Lab studies ciliate telomere proteins, telomere replication, and telomere synthesis. Projects include studies of structural telomere-binding proteins, a novel telomere replication factor, or *de novo* telomere synthesis. Experience in molecular biology and/or protein purification required. Send résumé, statement of research experience, and three reference letters to: **Dr. Carolyn Price, Department of Chemistry, 610 Hamilton Hall, University of Nebraska, Lincoln, NE 68588.**

POSTDOCTORAL RESEARCH POSITION(S) available immediately to study skin pigmentation. The work will involve the use of a yeast genetic system (Two Hybrid/Interaction Trap) to isolate and characterize skin specific genes that control the processes of pigment synthesis and transfer in melanocytes. The individuals should be interested in basic biology as it applies to the skin. The position(s) requires Ph.D. or M.D./Ph.D. and experience in molecular techniques.

Salary is negotiable based upon experience and institutional guidelines. Please send curriculum vitae and the names of three references to:

**Antonis Zervos, Ph.D.
Massachusetts General Hospital
Cutaneous Biology Research Center
Building 149, 13th Street, 3rd Floor
Charlestown, MA 02129**

The Massachusetts General Hospital/Harvard Cutaneous Biology Research Center is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, disabled and veterans are encouraged to apply.

RESEARCH ASSISTANT, Molecular Genetics: Ph.D. in Human Biological Chemistry and Genetics or M.D., in either case with strong background in Molecular Genetics (three publications in DNA Sequencing). Performs research on simplified shotgun method of library construction for large-scale sequencing of cDNAs and Cosmids DNAs, using an adaptor-based Uracil DNA glucosylase cloning process, automated DNA sequencing, PCR, and assembling techniques. Manages large-scale sequencing projects utilizing Mac, PC, and UNIX based sequence analysis programs. \$23,000.00 per year, 40 hours per week. Applicant must have proof of legal authority to work in the United States. Apply at **Texas Employment Commission, Houston, Texas**, or send résumé to **1117 Trinity, Room 424T, Austin, TX 78701, J.O. No. TX7212018. Ad paid by an Equal Employment Opportunity Employer.**

POSTDOCTORAL POSITION Molecular Aspects of Cerebral Protection Henry Ford Health Sciences Center

An institutionally supported (three years) postdoctoral position is available (February 1, 1994) to study the molecular basis of anesthesia-induced cerebral protection. The central theme of these studies involves glucose transport and metabolism as they relate to cerebral physiology. A strong background in membrane protein chemistry, cell biology, and biological transport is essential. Qualified candidates should possess a Ph.D. or equivalent in Biochemistry, Cell Biology, Molecular Biology, or Physiology. Send curriculum vitae, statement of prior research experience, and names of three references to: **Drs. Howard Haspel and Joseph Fenstermacher, Department of Anesthesiology, Henry Ford Health Sciences Center, CFP-1, 2799 West Grand Boulevard, Detroit, MI 48202-2689.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP

The Graduate Program in Ecology and Evolutionary Biology is seeking a POSTDOCTORAL FELLOW to assist in teaching a one-semester course in Human Morphology to medical students. Applicants must have experience with a cadaver-based Human Gross Anatomy course. The second semester will be available for full-time research. Excellent opportunities exist for research in Evolutionary Morphology. Applicants should submit a résumé including teaching experience, research interest, a list of publications, and the names of three individuals who can be contacted for letters of reference. Send applications by 15 March 1995 to: **Dr. G. E. Goslow, Jr., Box G-B210, Division of Biology and Medicine, Brown University, Providence, RI 02912. Brown University is an Affirmative Action/Equal Opportunity Employer.**

NASA PLANETARY BIOLOGY INTERNSHIPS

The Marine Biological Laboratory, Woods Hole, Massachusetts, invites applications from graduate students and seniors accepted to graduate programs for awards of \$2,200 plus travel to participate in research at NASA centers and collaborating institutions for approximately eight weeks. Typical intern programs include: global ecology, remote sensing, microbial ecology, biomineralization, origin and early evolution of life. Application Deadline: March 1, 1995. For information/applications contact: **Lorraine Olendzenski, Planetary Biology Internship, Department of Biology, Box 3-5810, University of Massachusetts, Amherst, MA 01003-5810. Email: pbi@bio.umass.edu; Telephone: 413-545-3223. An Equal Opportunity/Affirmative Action Institution.**

RESEARCH POSITION IN PHARMACOLOGY

The Department of Pharmacology at Baylor College of Medicine is seeking applications for a RESEARCH ASSOCIATE or POSTDOCTORAL FELLOW with experience in modern techniques of molecular biology and/or biochemistry to undertake a research project on localization of nucleolar proteins. The initial stipend is dependent on training and experience. The Department of Pharmacology has a longstanding program in molecular biology, protein chemistry, RNA structure and function. Studies on the mechanisms are in progress. Applications should be sent to: **Harris Busch, M.D., Ph.D., Chairman, Department of Pharmacology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Baylor College of Medicine is an Affirmative Action/Equal Opportunity/Equal Access Employer.**

POSTDOCTORAL RESEARCH FELLOW

Positions available to study ATPases' function in pre-mRNA splicing and their interactions with spliceosomes in yeast. Qualified candidates should have a Ph.D. with experience in molecular biology, protein biochemistry or genetics. Please send curriculum vitae, description of research experience and interests, and three letters of reference to: **City of Hope Medical Center/Beckman Research Institute, Department of Human Resources, 1500 East Duarte Road, Duarte, CA 91010.**

We continuously accept résumés for a variety of research positions.

LAB RESEARCH ASSOCIATE

Hoag Cancer Center, the leading provider of cancer care in Orange County, has an immediate opening for a RESEARCH ASSOCIATE in our Cell Biology Lab. Qualified candidate will possess a Bachelor's degree in Biology with three to five years of experience in a Cell Biology Laboratory. Candidate must be familiar with techniques to establish human tumor cells in short term cultures and TIL in tissue culture. Previous experience with stem cell processing is required. Experience in tumor cell vaccine preparation is desirable. Must possess good verbal and written communication skills and be very detail oriented.

Hoag offers excellent health benefits, paid time off (cash or time), and a 401(k) plan where Hoag makes matching contributions. Send résumé to: **Teresa LeBeau, Human Resources, Hoag Hospital, 301 Newport Boulevard, Box 6100, Newport Beach, CA 92658-6100. FAX: 714-760-2313. An Equal Opportunity Employer.**

Situated in downtown Seattle, overlooking Puget Sound, Immunex Corporation offers professional challenge and the opportunity to live in one of the most desirable places in America. As a biopharmaceutical company focused on the discovery, development, manufacture and marketing of products to treat immune system disorders, we are also well positioned in a critical industry where innovative ideas help save lives.

STAFF SCIENTIST

Gut Biology

The successful candidate will be involved with developing a program of research in the biological and immunological aspects of intestinal epithelial cell growth and function or mucosal immunology with specific focus on the gastrointestinal system. Knowledge of intestinal disease models is advantageous. Requires a Ph.D., a minimum of 3 years' post-doctoral experience and demonstrated research ability. Reference Job #7215.211A.

STAFF SCIENTIST

Pathology

The successful candidate will participate in ongoing research projects in biological sciences by providing histopathological analysis of animal tissues. This individual will also provide guidance on histopathological techniques and analysis to other scientists as well as having the opportunity to develop an independent research effort. Requires a Ph.D. or D.V.M. with board certification in Veterinary Pathology. Reference Job #7215.211B.

STAFF SCIENTIST

Cellular Immunology

The successful candidate will direct a research program focusing on the discovery and functional characterization of cytokines and other immunoregulatory molecules, with particular emphasis on human immune response models. Requires a minimum of 3-5 years' post-doctoral experience and a solid research background in human immunology. Reference Job #7215.211C.

For consideration, please submit C.V., specifying the appropriate job number, three references and a list of publications to: IMMUNEX CORPORATION, Attn: Human Resources Dept., 51 University Street, Seattle, WA 98101. An equal opportunity employer.

Jobline (206) 389-4060

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ENZYMOLOGIST

An excellent opportunity to play an important role in the company's drug discovery/lead optimization efforts. We are currently seeking an MS or PhD in Biochemistry with 2-4 years of experience in the area of enzymology. Responsibilities will include designing and performing kinetics studies in different enzymatic assays, as well as evaluation/prioritization of lead compounds. Broad knowledge of protein biochemistry, structure-activity-relationship and organic chemistry would be desirable.

Mitotix offers competitive salaries, benefits and a chance to work in an exciting scientific environment. Please write: **Human Resources, Enzymologist Position, Mitotix, Inc., One Kendall Sq. Bldg. 600, Cambridge, MA 02139.** No telephone calls please.

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Weyerhaeuser Company Environmental Forestry Research and Development



Opportunities for Employment

Weyerhaeuser

Weyerhaeuser Company is recruiting five technical specialists to conduct cumulative effects assessments in watersheds in Oregon. These specialists will work both independently and as a team to: (1) identify watershed sensitivities to forest management activities, (2) work with forest land managers to develop prescriptions appropriate to address the identified sensitivities, and (3) lay the foundation for effectiveness monitoring programs that follow the implementation of these prescriptions. The primary focus of the team will be to complete the watershed analyses. Team members will also be involved in development and testing of new approaches to watershed assessment.

The five positions to be filled are: (1) a slope stability geomorphologist, (2) a stream channel geomorphologist, (3) a soil scientist, (4) a fish biologist and (5) a riparian/hydrology specialist. The team and one technical assistant will be headquartered at the Weyerhaeuser facilities in Springfield, Oregon. The team will work together to complete level 2 resource assessments in each watershed, consistent with methods and procedures described in Washington's Watershed Analysis Manual, version 2.1 (available from Weyerhaeuser and the Washington State Department of Natural Resources). Each team member will be responsible for performing all work necessary to achieve the objectives outlined in the Module they are assigned to, plus additional team duties as needed.

These are full-time positions. The starting date is mid to late February 1995.

Special Qualifications and Abilities

- Minimum B.S. or equivalent experience. M.S. desired in one of specialized fields.
- Knowledge of forest practices and resource issues in the Pacific Northwest.
- Ability to work effectively as a member of a team of technical specialists, with a full workload and a tight schedule.
- Ability to work openly and cooperatively with individuals from a wide range of occupations and technical expertise.
- Ability to set priorities and complete projects on schedule.
- Physical ability to work in forested hillslopes and streams of semi-remote areas.
- Knowledge of physical and biological processes in watersheds and how they interact.
- Experience in applied research.
- GIS knowledge and experience desired.
- A valid driver's license.
- Drug screen required.

To apply for any of these opportunities, send resume/cover letter by February 3, 1995 indicating position of interest to: **Staffing Coordinator, Weyerhaeuser Technology Center (WTC 1G42), Tacoma WA 98477**

POSITIONS OPEN

The Chesapeake Biological Laboratory (CBL), of the University of Maryland's Center for Environmental and Estuarine Studies (CEES), announces a postdoctoral position (**POSTDOCTORAL INVESTIGATOR**) for an Environmental Toxicologist. We seek an aquatic toxicologist who uses experimental approaches to understand mechanistic responses as they relate to population-level processes. This individual will be part of our programs in aquatic toxicology and is expected to interact with ongoing environmental research programs especially with our toxicology, fisheries, and ecology programs. We are interested in programs investigating the effects of sublethal stresses on reproduction, growth, survival, and resultant population dynamics of marine organisms. The position is for 12 months and is renewable for one year. Applicants should submit a statement of research expertise and accomplishments, curriculum vitae, publications, and names of four references. Applications received before February 28, 1995, will be given full consideration; however, the search will remain open until a suitable candidate is found. Please submit inquiries and applications to: **Chair, Environmental Toxicologist Search Committee, University of Maryland System, Chesapeake Biological Laboratory, P.O. Box 38, Solomons, MD 20688.**

Chesapeake Biological Laboratory is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION BIOLOGICAL CONTROL, UC BERKELEY

POSTDOCTORAL POSITION available immediately to study *Trichogramma* augmentation against the codling moth on apple, pear and walnut orchards in California. A combination of lab and in-the-field studies will be used to examine the ecology and behavior of *Trichogramma* in orchards and to develop field trials of *Trichogramma* augmentation. Experience in parasitoid behavior, biological control or orchard entomology desirable. One year appointment with possibility of extension. Send curriculum vitae, statement of research interests and names of three references no later than February 20, 1995, to: **Dr. Nick Mills, University of California at Berkeley, Laboratory of Biological Control, 1050 San Pablo Avenue, Albany, CA 94706.** *An Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY OF CALIFORNIA AT LOS ANGELES

Human Gene Therapy Program Postdoctoral Fellowships

The UCLA Human Gene Therapy Program invites applications for **POSTDOCTORAL POSITIONS**. Postdoctoral positions are available in the areas of gene therapy of cancer, HIV, hematopoiesis and inborn errors. Fellows will be integrated into a multi-laboratory consortium in the Gene Therapy Program.

Applicants should submit a curriculum vitae, names of references and a statement of past and future research interests to: **James S. Economou, M.D., Ph.D., Gene Therapy Search Committee, 54-140 CHS, UCLA Medical Center, Los Angeles, CA 90024-1782.** FAX: 310-825-7575. *UCLA is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION HIV RESEARCH

POSTDOCTORAL POSITION available immediately to study cytokine and cytokine antagonist control of HIV replication and immune response. The *in vitro* research is oriented toward designing therapeutic approaches for *in vivo* use. A Ph.D. or M.D. degree is required and a strong background in HIV research or molecular biology is highly desirable. Send curriculum vitae and names of three references to: **Paul Skolnik, M.D., Division of Infectious Diseases, Tufts University-New England Medical Center, 750 Washington Street, NEMCH 67, Boston, MA 02111.** *New England Medical Center is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL RESEARCH POSITION, Columbia University, College of Physicians & Surgeons: Molecular biologist to clone and express catalytic monoclonal antibodies. Familiarity with phage display technology highly advantageous. Salary commensurate with experience. Please send curriculum vitae and name of reference to: **Dr. Donald Landry, Columbia University, Department of Medicine, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION DEPARTMENT OF PATHOLOGY EMORY UNIVERSITY

The Angiotensin II Receptor and Phosphorylation

An NIH-funded position is immediately available to study the intracellular signaling initiated by the angiotensin II receptor. Unlike the typical paradigm of G-protein coupled receptors, angiotensin II can stimulate an intracellular cascade of protein phosphorylation. Applicants will be expected to work with graduate students and technicians and to take a substantial role in developing a program investigating angiotensin II mediated signaling. Applicants should have a Ph.D. or M.D. with experience in molecular biology or protein phosphorylation. Send curriculum vitae, reprints and references to:

**Ken Bernstein, M.D.
Room 711 WMB
Emory University
Atlanta, GA 30322**

Emory University is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP: Studies on Stromal-Epithelial Interactions in Human Cell Cultures. Project seeks to identify normal mediators of communications and interactions between stromal and epithelial cells and changes that develop during malignant transformation. Preference given to applicants with experience with culture of primary human cells and/or finite human cell strains. Reverse-transcription PCR, signal transduction, cell co-cultivation experience useful. Send letter, curriculum vitae, description of experience and career objectives, and names, addresses, and telephone numbers of three references to: **Dr. David G. Kaufman, Department of Pathology (ECP95), University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7525.** Preference given to candidates who could qualify for support from an NIH training grant (U.S. citizens and permanent residents). *An Affirmative Action/Equal Opportunity Employer. Members of underrepresented minorities and women are encouraged to apply and identify themselves.*

Senior POSTDOCTORAL/RESEARCH ASSOCIATE Position is available immediately to work on the isolation, sequencing and cloning of novel protein/peptide hormones. Candidates must have training and several years of experience in protein/peptide characterization and basic skills in molecular biology. Send curriculum vitae and names of three references to: **Dr. N. Ben-Jonathan, Department of Cell Biology, University of Cincinnati Medical School, 231 Bethesda Avenue (ML 521), Cincinnati, OH 45267.** Telephone: 513-558-4821; FAX: 513-558-4823. *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS are available immediately to study the molecular mechanisms regulating the differentiation and self-renewal of hematopoietic stem cells. A strong background in molecular biology and an interest in developmental biology is required. Please send a curriculum vitae and the names of three references to: **William H. Fleming, M.D., Ph.D., or Edmund K. Waller, M.D., Ph.D., Stem Cell Biology Lab, Bone Marrow Transplantation Program, Drawer AR, Emory University, Atlanta, GA 30322.** Telephone: 404-727-3520.

POSTDOCTORAL RESEARCH position available to study the mechanism by which integrin mediated cell adhesion generates signals which control myogenic cell differentiation and/or v-src oncogene initiated cell proliferation. Interested candidates should send curriculum vitae and names of three references to: **David Boettiger, Department of Microbiology, University of Pennsylvania, Philadelphia, PA 19104-6076.** Email: Boettige@pobox.upenn.edu. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE: Desire Ph.D. with experience in HIV molecular biology to be a research associate in a laboratory-based program on the pathogenesis of HIV. Person will help direct laboratory-based program involved in studies in humans and primates of natural history and immunology of HIV. Experience with PCR, cloning, sequencing and other molecular biologic assays with HIV essential. Experience with making vaccinia constructs is also desired. Contact: **Lawrence Corey, M.D., University of Washington, c/o Pacific Medical Center—ZB-30, 1200 12th Avenue South, Room 9301, Seattle, WA 98144.** *The University of Washington is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE

Examine the regulation of differentiation/apoptosis in hematopoietic and solid tumors. Four ongoing areas of research in the laboratory include (1) regulation of c-Jun protooncogene activity by PKC activators, (2) modulation of the cell cycle by the WAF-1 protein, (3) stimulation of signal transduction by the GM-CSF receptor, and (4) induction of prostate tumor apoptosis. Experience in molecular biology is required. Please send curriculum vitae and the names of three references to: **Dr. A. Kraft, University of Alabama at Birmingham, Tumor Institute, 1824 6th Avenue South, Room 558T, Birmingham, AL 35294.**

INVESTIGATOR

The Pulmonary Division of Wayne State University School of Medicine is recruiting for a **RESEARCH POSITION** at the level of Investigator. Applicants should have a Ph.D. degree in cell biology, biochemistry or molecular biology. Previous research experience in cloning, expression of recombinant proteins and site directed mutagenesis is required. Experience with transgenic mice is desirable. Initial participation in ongoing programs is required. Support is available for independent research depending on qualifications. Reply to: **James H. Fisher, M.D., The Detroit Medical Center, Harper Hospital, 3990 John R, 3-Hudson, Detroit, MI 48201.** *Affirmative Action/Equal Opportunity Employer.*

Sienna Biotech, Inc. is seeking specific expertise (M.S./Ph.D.) in metal colloid chemistry to develop novel applications for analysis of components in serum and receptors on cells. Immunoassay experience in diagnostic industry preferred. **POSTDOCTORATES** welcome to apply. Please FAX or mail your résumé to: **Dr. Anne Bodner, Director, Research and Development, Sienna Biotech, Inc., 9115 Guilford Road, Suite 180, Columbia, MD 21046.** FAX: 301-497-8796; Telephone: 301-497-0007.

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**NATIONAL UNIVERSITY OF SINGAPORE
INSTITUTE FOR MOLECULAR AGROBIOLOGY
RESEARCH APPOINTMENTS**



Applications are invited for appointments as **Junior Research Fellows, Research Fellows and Principal Investigators.**

The Institute of Molecular Agrobiolgy (IMA) was recently established by the National Science and Technology Board under the parentage of the National University of Singapore. Its mission is:

To spearhead agricultural research at the genetic and molecular levels to establish Singapore as a world-class centre for agrotechnology industries.

The Institute wishes to set up about 20 independent laboratories focusing on, but not limited to, the following research areas:

**Plant Cell Biology
Plant Developmental Biology
Viral, Bacterial and Fungal Pathogens of Plants
Defense Mechanisms of Plants
Yeast Molecular Genetics
Fish Developmental Biology
Fish Immunology
Mechanisms of Pathogenesis in Fish
Animal Cytokines
Poxviruses and Insect Viruses
Genome Analysis
Mechanism of Pathogenesis in Animals**

Gross annual emoluments range as follows:

Junior Research Fellow (Doctoral Students)	S\$ 18,570 - 35,970
Research Fellow (Postdoctoral Fellows)	S\$ 55,910 - 71,400
Principal Investigators	
Senior Scientist	S\$ 65,200 - 122,820
Associate Professor	S\$108,820 - 151,480

(US\$1.00 = S\$1.46 approximately)

The commencing salary will depend on the candidate's qualifications, experience and the level of appointment offered. In addition, a 13th month Annual Allowance (of one month's salary) and an Annual Variable Component (of normally 2 months' salary) are payable at year end, under the flexible wage system, to staff on normal contracts. Leave, medical and other benefits will be provided.

Principal Investigators who will be heads of independent laboratories will be appointed at the rank of Associate Professor or Senior Scientist (equivalent to Assistant Professor), depending on experience. Teaching responsibilities are modest and limited to graduate level. Investigators using innovative approaches to explore the mechanisms of basic biological processes in model organisms (e.g. Arabidopsis and zebrafish) are encouraged to apply.

Depending on qualification and seniority, Principal Investigators will be provided with up to 5 fully funded postdoctoral positions.

Applications for positions of **Principal Investigators** should include a copy of the curriculum vitae, a brief description of past research experience and accomplishments, the proposed research programme at IMA and names of three to five referees and those for positions of **Research Fellows** and **Junior Research Fellows** should include a copy of the curriculum vitae along with the names of three referees. **Junior Research Fellows** are expected to enroll in the University's PhD programme.

Applications should be sent to the following address: **The Acting Director, The Institute for Molecular Agrobiolgy, c/o Dean's Office, Faculty of Science, National University of Singapore, Lower Kent Ridge Road, Singapore 0511**

Enquiries may also be sent through **INTERNET** to: zookhw@nus.sg, or through **Telefax: (65) 7774279**

JOIN OUR FAMILY

RESEARCH SCIENTIST

Saint Francis Campus

Saint Francis Hospital and Medical Center Located in Hartford, Connecticut, is seeking candidates to join our Department of Research and our bone cell and molecular biology group. Candidates should have completed a doctoral degree and a postdoctoral fellowship and have prior experience in molecular biology. Candidates will be eligible for an appointment at the University of Connecticut School of Medicine. Senior postdoctoral fellows will also be considered. Interested candidates should send resume and references to:

Dr. Ernesto Canalis, Saint Francis Hospital and Medical Center, 114 Woodland St., Hartford, Connecticut 06105-1299, Fax: (203) 548-5415.



EEO/AA - M/F/D/V
Pre-Employment Drug Testing

THE UNIVERSITY OF THE WEST INDIES

St. Augustine, Trinidad

LECTURER/ASSISTANT LECTURER IN BIOCHEMISTRY

Applicants should have a first degree in Medicine, Biochemistry, Molecular Biology or Microbiology as well as a PhD in Biochemistry/Molecular Biology and research experience.

ANNUAL SALARY RANGES; (Medical): Lecturer TT\$78,624 - TT\$86,880 (B) - TT\$100,824; Assistant Lecturer TT\$65,412 - TT\$69,540 plus an Institutional Allowance ranging from 10% to 30% of basic salary depending on post. (Non-Medical): Lecturer TT\$67,056 - TT\$79,440 (B) - TT\$95,436; Assistant Lecturer TT\$52,500 - TT\$56,628. Special Allowance (Medical and Non-Medical): Lecturer Below Bar TT\$1,680 per annum. Above Bar: TT\$3,024 per annum. (£1 = TT\$8.84; US\$1 = TT\$5.92).

Passages, Pension, Housing Allowances, Study and Travel and Book Grants.

Applications naming three referees and detailing qualifications and experience to the Registrar, The University of the West Indies, St Augustine, Trinidad (fax [1 809] 663 9684) as soon as possible.

Further particulars will be sent to all applicants and are also available from the Appointments Department, Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK (tel. 0171 387 8572 ext. 206; fax 0171 383 0368; email appts.acu@ucl.ac.uk).

バイエル薬品(株) 中央研究所

管理職候補募集

<自己免疫疾患分野>

ドイツ・バイエル社は海外の研究拠点として、アメリカに次いで日本に中央研究所を設立します。日本は、アレルギー及び免疫分野を担当しますが、ドイツ・アメリカ等との学術交流が頻繁なため国際感覚豊かでリーダーシップのとれる優秀な研究者を募集します。

職務内容: 自己免疫疾患領域における医薬品探索のための分子生物学的研究

※当職位には将来の管理職として、研究方針の策定及びプロジェクトの指揮等のマネジメントの職務が追加される予定です。

応募資格: 上記関連分野の研究者。博士及び企業研究所・海外生活・部下指揮の各経験者歓迎。日本語・英語必須。

勤務地: 中央研究所('95年2月開設) 京都府相楽郡木津町/関西文化学術研究都市木津南地区

待遇: 弊社規定により優遇、借上社宅制度有、入社・面談日応談。

応募書類: 履歴書(日・英)、研究概要(日・英各A4 1枚程度)及び主要論文のコピーを下記宛お送りください。

選考: 1次/書類審査 2次/面接他

〒532 大阪市淀川区宮原3-5-36新大阪第2森ビル
バイエル薬品(株) リクルーティング部 係

TEL.06-398-1145 担当 野本・藤本

※コレクトコールをご利用下さい。

※弊社は全ての社員及び応募者に公平に対応致します。

Science Advertising Calendar of Events

Mark Your 1995 Calendar for These Exciting Advertising Opportunities

27 January

Bonus Distribution to the Biotechnology/
Pharmaceutical Job Fair in San Francisco,
California, 3-4 February 1995.
Bonus distribution to nearly 1,000 scientists
at the '95 Miami Bio/Technology Winter
Symposia, 5-6 February 1995.

3 February

Editorial Focus, Gordon Research Confer-
ence. Scientists look to the Gordon
Research Conference issue when planning
their attendance at these acclaimed sessions.

10 February

Bonus Distribution to the AAAS Annual
Meeting in Atlanta, Georgia, 17-20 February
1995. Over 3,500 scientists from around the
globe will attend.

24 February

Special Advertising Section, *Euroscience at
Work: Career Opportunities in European
Biotechnology and Pharmaceuticals*.
SCIENCE explores the life sciences career
market in Europe and tells readers where to
find the best career opportunities. Full page
recruitment ads will be positioned with the
editorial. Fractional advertisements for
positions outside the U.S. will be placed
under a Global Careers Banner in the
classified section.

3 March

Bonus Distribution to the Biotechnology/
Pharmaceutical Job Fair, 10-11 March, New
Jersey.
Bonus Distribution to the American Physical
Society meeting, 22-24 March, San Jose,
California.

10 March

Editorial Focus, Molecular Biology: Cellular
Regulation I.
Bonus Distribution to attendees at the
American Association for Cancer Research
meeting, 19-21 March, Toronto, Canada.
Bonus Distribution to USGEB, 30-31
March, Fribourg, Switzerland.

17 March

Special Advertising Section, *Careers in
Biotechnology and Pharmaceuticals:
Manufacturing & Regulatory Affairs*.
Bonus Distribution to two Biotechnology/
Pharmaceutical Job Fairs:
24-25 March, La Jolla, California and
28-29 April, Cambridge, Massachusetts.

24 March

Bonus Distribution to the American Chemi-
cal Society, 3-5 April, Anaheim, California.

31 March

Editorial Focus, Frontiers in Materials
Science.
Bonus Distribution to the Materials Re-
search Society meeting, 18-20 April,
San Francisco, California.

For Recruitment Advertising:

Call (202)326-6541, FAX (202)682-0816.

For Product Advertising:

Call (202)326-6542, FAX (202)682-0816.

Advertising Internet Address:

science_classifieds@aaas.org

SCIENCE

Molecular Biologist/Virologist

A postdoctoral scientist position for either a foreign applicant (Fogarty Visiting Fellowship Program) or a U.S. citizen (Intramural Research Training Appointment) is available immediately to study molecular mechanisms of tumorigenesis at the Laboratory of Immunopathology, National Institute of Allergy and Infectious Diseases. Research projects are aimed at identification and characterization of disease genes associated with murine AIDS (MAIDS)-lymphomas and B-cell lymphomas of ecotropic viruses-congenic NFS mice. Experience in molecular biology, especially in genomic- and cDNA-library construction, and less than five years postdoctoral experience are required. Salary range \$25,000 - \$32,000 will be commensurate with experience.

Qualified and interested candidates should send curriculum vitae and names and addresses of three (3) references to:

Dr. Herbert Morse or Dr. Xiaobei Liao
Laboratory of Immunopathology
NIAID - National Institutes of Health
Building 7, Room 302
7 Center Drive MSC-0760
Bethesda, MD 20892-0760



Phone: 301-496-4436/6379 Fax: 301-402-0077

Applications must be received by February 28, 1995

NIH is an Equal Opportunity Employer

California Institute of Technology Postdoctoral Fellowships in Earth and Planetary Sciences

The California Institute of Technology announces two fellowships in Earth and Planetary Sciences:
The O.K. EARL POSTDOCTORAL FELLOWSHIP, and
The TEXACO POSTDOCTORAL FELLOWSHIP.

These awards are from funds endowed by ORRIN K. EARL, JR. and by the TEXACO PHILANTHROPIC FOUNDATION. Each fellowship carries an annual stipend of \$34,000 and offers a research expense fund of \$1,000 per year and one-way travel to Pasadena. The duration of each appointment will normally be for two years, contingent upon good progress in the first year, and beginning with the 1995-96 academic year. Fellows are eligible to participate in Caltech's health and dental program.

These fellowships have been established to support the research of scientists, typically within two years after receipt of the Ph.D. The intent of the program is to identify and support innovative and creative work in the earth and planetary sciences, with particular emphasis on interdisciplinary work. Applicants with training in physics, chemistry, biology or computer sciences are urged to apply. The Caltech faculty is currently active in Geobiology, Geochemistry, Geology, Geophysics, Petrology, Seismology and Atmospheric and Planetary Sciences. It is expected that each fellowship holder will be hosted by a Division professor (designated by the Division Chairman) who will contribute to the fellowship support both financially and by providing intellectual guidance.

Application forms may be obtained by writing to Prof. E.M. Stolper, Chairman, Division of Geological and Planetary Sciences, Mail Code 170-25, California Institute of Technology, Pasadena, California 91125 (email: stover@arms.gps.caltech.edu).

**COMPLETED APPLICATIONS WITH REFERENCES SHOULD
ARRIVE AT CALTECH BY
FRIDAY, MARCH 17, 1995.**

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

Caltech is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans and disabled persons are encouraged to apply.

Cancer Research Institute Symposia Series

CANCER VACCINES	<i>The Cancer Research Institute continues its series</i>	ANTIBODIES & CANCER THERAPY
1994	<i>of international symposia on the two central objectives</i>	1995
1996	<i>of cancer immunology: cancer vaccines and antibodies as</i>	1997
1998	<i>therapeutic agents.</i>	1999

MONOCLONAL ANTIBODIES & CANCER THERAPY

1995

The Next Decade

An international symposium sponsored by the
CANCER RESEARCH INSTITUTE
to be held in
New York City, New York

October 16-18, 1995

ORGANIZING COMMITTEE:

Lloyd J. Old (Chairman)	Ludwig Institute for Cancer Research
Richard A. Lerner	The Scripps Research Institute
Jean-Pierre Mach	Swiss Institute for Experimental Cancer Research
Ira H. Pastan	National Cancer Institute
Gert Riethmüller	University of Munich
Stuart F. Schlossman	Dana-Farber Cancer Institute
Sydney Welt	Memorial Sloan-Kettering Cancer Center

TOPICS:

**Antigenic Targets, Antibody Constructs,
Mediators and Mechanisms of Cell Killing,
and Clinical Studies**

For further details contact Lynne Harmer at:



**CANCER
RESEARCH
INSTITUTE**

681 Fifth Avenue, New York, NY 10022
212/688-7515; FAX 212/832-9376

**Flinn Foundation Fellowships
in the Mathematics of Biological and
Biomedical Systems
at the University of Arizona**

Applications are invited for graduate fellowships to support studies involving the application of mathematical approaches to research in biological and biomedical areas which will lead to the Ph.D. degree. Participating Ph.D. programs included Applied Mathematics, Ecology and Evolutionary Biology, Molecular and Cellular Biology, Genetics and Physiological Sciences. Fellowship support at competitive levels will be provided by the Arizona-based Flinn Foundation. Fellows will pursue their studies in their chosen degree programs and will be expected to participate, with the other Fellows, in interdisciplinary training activities in mathematics and biology. Broad areas of current research include cardiovascular dynamics, population and epidemiological processes, biological structures, pattern formation, and complexity.

Applicants will be considered for invitation to a workshop on Current Ideas in the Mathematical Sciences, to be held at the University of Arizona, March 4-7, 1995. A session devoted to biological mathematics and provide an opportunity to meet participating faculty. Limited financial support will be available for attendees.

Application for graduate studies at the University of Arizona must be made to the Graduate Admissions Office. Forms are available from the address below. When requesting forms, please state your interest in the Flinn Fellowships in the Mathematics of Biological and Biomedical Systems and which doctoral program(s) interest you. Applications review will begin February 1; therefore, please ensure that complete applications are received as soon as possible.

**Flinn Fellowships in the Mathematics
of Biological and Biomedical Systems,
c/o Program in Applied Mathematics
University of Arizona
Tucson, AZ 85721
Phone (602) 621-2016 or 4664
Email: applmath@ccit.arizona.edu**

The University of Arizona is an EEO/AA/ADA Employer.

**University of California-Davis
Insect Biologist (Mosquito Biology/Medical Entomology)**

The Department of Entomology invites applications for a tenure-track faculty position on the Davis Campus and the Directorship of the UC Mosquito Control Research Laboratory at the Kearney Agricultural Center (KAC) (approximately 180 miles south of campus). Appointment will be at the Assistant/Associate/Professor (15% teaching) in the College of Agricultural and Environmental Sciences and Assistant/Associate/Entomologist (85% research) in the Agricultural Experiment Station. Applicants must have a Ph.D. in a biological science with background appropriate to the development of a comprehensive research program in a field relevant to the biology and control of mosquitoes. The successful candidate will be required to present formal courses related to his/her area of specialization as well as contribute to courses in the departmental and campus programs. The successful candidate will be expected to develop a comprehensive research program to develop innovative strategies for understanding and controlling mosquito populations. Permanent state funding is available to this program, including a research staff and operating funds. The successful candidate will be expected to develop extramural and intramural sources of funding from other state and federal sources. Office and laboratory space will be provided on the Davis campus in addition to a completely equipped, modern laboratory at KAC. Salary will be according to the University of California faculty pay schedule for the Assistant/Associate/Professor rank with possibility of adjustment of within-rank steps in recognition of prior accomplishments.

This position is available July 1, 1995. Letter of application, curriculum vitae, transcripts, reprints of published scientific work and the names and addresses of three individuals familiar with the professional accomplishments of the applicant should be sent to Chair, Search Committee, Department of Entomology, University of California, Davis, CA 95616. Open until filled but to assure consideration, applications should be submitted by February 15, 1995.

*The University of California-Davis is an equal opportunity/
affirmative action employer.*



**Postdoctoral Positions
Basic Training on
HIV and AIDS**

Positions are available in an NIH sponsored interdepartmental training program on basic research on HIV and AIDS. Research programs include: *J.W. Belmont*, Regulation of immune deficiencies; *W. Chiu*, 3-D analysis of retroviruses; *L.A. Donehower*, Tumor suppressors; *R.A. Gibbs*, HIV sequence variation; *J.W. Harper*, Structure and function of HIV tat and rev; *D.E. Lewis*, CD8 cells in HIV pathogenesis; *S.J. Marriott*, Transcription of HTLV-1; *A.P. Rice*, Mechanism of HIV tat function; *R.D. Rossen*, Adhesion molecules and HIV infection; *W.T. Shearer*, Pediatric AIDS; *T.H. Tan*, HIV expression and T cell activation; *J.S. Butel*, Retrovirus (MMTV) LTR ORF protein. Interested candidates should send curriculum vitae and names of 3 references to: Dr. Janet S. Butel, Director of HIV and AIDS Training Program, Division of Molecular Virology, Baylor College of Medicine, Houston, Texas 77030. Fax: (713) 798-5075. Email: jbutel@bcm.tmc.edu.

*Equal Opportunity/Affirmative Action/
Equal Access Employer.*

**YALE UNIVERSITY
SCHOOL OF MEDICINE
AND
YALE-NEW HAVEN
HOSPITAL**

are seeking an individual to be Chair of the Department of Anesthesiology and Chief of the Anesthesiology Service respectively. The department is comprised of ambulatory, cardiac, general, obstetrical and gynecological and pediatric anesthesiology sections and acute and chronic pain management services. Currently the department has 51 full-time and 31 voluntary faculty and is actively engaged in the training of residents, clinical and research fellows. Candidates should submit their curriculum vitae to: **Peter Jatlow, M.D., Chair, Department of Laboratory Medicine, Yale University School of Medicine, 333 Cedar Street, P.O. Box 208035, New Haven, CT 06520-8035 by March 1, 1995.**

*Yale University is an Affirmative
Action/Equal Opportunity employer.
Women and minority group members
are encouraged to apply.*

**Professor/Chair
Department of
Physiology & Biophysics**

The University of Alabama at Birmingham Schools of Medicine and Dentistry invite applications and nominations for a tenured professorial position as **CHAIR** of the Department of Physiology and Biophysics. The person filling this position will assume the leadership of a strong, well-funded, nationally recognized department with major areas of expertise including the fields of membrane transport, neuroendocrinology, and cardiovascular physiology. The **CHAIR** will have the opportunity to expand the department in new directions. The department presently includes 18 full-time faculty members and a well-established graduate program with 30 trainees.

The applicant must have Ph.D., M.D. or equivalent degree, be internationally recognized for research in any aspect of physiology, have a commitment to graduate and medical education, and have a record of demonstrated leadership in administrative activities. The successful candidate is expected to be an established scientist with a strong on-going, independent, and well-funded research program. Interested applicants should submit a curriculum vitae including the names of three references by **April 1, 1995** to: **Amy W. Thompson, Director of Administrative Services, University of Alabama School of Medicine, MEB 310F, University Station, Birmingham, Alabama 35294-3293.**

*An Affirmative Action/
Equal Opportunity Employer.*

EMPLOYMENT EXCHANGE '95

AAAS Annual Meeting and Science Innovation Expo Atlanta Marriott Marquis 17-21 February

HOURS OF OPERATION

- 17 February, Friday** **SCIENCE CAREER DAY Job Fair- 11:00 am-5:00 pm**
Employer/Candidate Registration, Interview Scheduling
- 18 February, Saturday** **Career Development Seminars - 8:30 am-4:00 pm**
"How to Give Technical Presentations"
 presented by Dr. Paul Antaki, Antaki & Associates, Inc. [8:30-11:45 am]
"Your Personal Marketing Campaign - Insider's Secrets to Finding A Job in Science"
 presented by Dave Jensen, Search Masters International, Inc. [12:45-2:15 pm]
"Tactics for Surviving Corporate Downsizing"
 presented by Ed Bocko, Jr., ProTran Resources, Inc. [2:30-4:00 pm]
- Employer/Candidate Registration - 10:00 am-6:00 pm**
Interview Scheduling/Interviews
- 19 February, Sunday** **Career Development Seminars - 8:30 am-5:30 pm**
"White Shirts and Birkenstocks: How to Succeed in Today's Biotech Workplace Environment"
 presented by Dave Jensen, Search Masters International, Inc. [8:30-10:00 am]
"Projection on Job Outlook in the Biotech Industry"
 presented by Ed Bocko, Jr., ProTran Resources, Inc. [10:15-11:45 am]
"Career Change Issues: From Academia to Industry"
 presented by Ed Bocko, Jr., ProTran Resources, Inc. [12:45-2:15 pm]
"Resume Writing Seminar and Workshop: Resume Writing/Critique"
 presented by Alison French and Greg Stokes, AAAS Human Resources Office [2:30-5:30 pm]
- Employer/Candidate Registration - 10:00 am-6:00 pm**
Interview Scheduling/Interviews
- 20 February, Monday** **Career Development Seminars - 8:30 am-5:30 pm**
"Your Personal Marketing Campaign - Insider's Secrets to Finding a Job in Science"
 presented by Dave Jensen, Search Masters International, Inc. [8:30-10:00 am]
"Interview and Presentation Skills"
 presented by Alison French and Greg Stokes, AAAS Human Resources Office [10:15-11:45 am]
"Resume Writing Seminar and Workshop: Resume Writing/Critique"
 presented by Alison French and Greg Stokes, AAAS Human Resources Office [2:30-5:30 pm]
- Employer/Candidate Registration - 10:00 am-6:00 pm**
Interview Scheduling/Interviews
- 21 February, Tuesday** **Scheduled Interviews Only - 9:00 am-1:00 pm**

DON'T MISS THE AMSIE95 EMPLOYMENT EXCHANGE! THERE IS STILL TIME TO ENROLL!!
 For enrollment forms and more information, contact: Kevin M. Bullock, AAAS Employment Exchange,
 1333 H Street, NW, Suite 1159, Washington, DC 20005. Or via phone: 202-326-7049; via fax: 202-289-4021;
 via internet: kbullock@aaas.org. Recruiters wishing to reserve booth space for the SCIENCE CAREER
 DAY Job Fair should contact Kevin Bullock immediately! Limited space is still available.

Onsite enrollment for the Employment Exchange begins at 11:00 am, Friday, 17 February.

Careers in Biotechnology and Pharmaceuticals: Beyond Discovery

17 March 1995

On 17 March, *Science* will publish a special advertising section titled *Careers in Biotechnology and Pharmaceuticals: Beyond Discovery - Science Careers Up and Down the Production Stream*. This is a popular annual advertising section dedicated to biopharmaceutical employment matters with bonus distribution to two U.S. job fairs, one on each coast. This section will explore the exciting next phase of the biotech industry. It will look at how the manufacturing, regulatory, and service sectors of the modern biopharmaceutical company are growing, and it will highlight career paths in areas such as:

- Clinical Trials
- Research and Development
- Regulatory Affairs
- Quality Assurance and Quality Control
- Production and Manufacturing
- Formulations and Chemistry
- Validation

Careers in Biotechnology and Pharmaceuticals: Beyond Discovery is a "must-read" section for scientists at every level. Don't miss this chance to be part of one of the biggest and most industry-relevant advertising sections of the year!

Job Fair Bonus Distributions

This highly visible issue will be distributed at two job fairs:

- Biotech/Pharmaceutical Job Fair, 24-25 March, La Jolla, California.
- Biotech/Pharmaceutical Job Fair, 28-29 April, Cambridge, Massachusetts.

Benefits of Full Page Advertisements

This section is an excellent opportunity for full page advertisers to get extra attention. Full page recruitment advertisements in the 17 March issue will receive placement throughout this career-related special advertising section. Names of the companies or institutions placing full page advertisements will be listed on an index affixed to the covers of the magazines distributed at the job fairs.

***Advertising space reservation deadline:
28 February 1995***

To advertise, call:

In the U.S., Janis Crowley at (212) 496-7704 or fax to (202) 682-0816.

In Europe, Gordon Clark at (+44) 01223 302 067 or fax to (+44) 01223 302 068.

SCIENCE

**GRADUATE FELLOWSHIPS
CENTER FOR THE STUDY OF EVOLUTION
AND THE ORIGIN OF LIFE
UCLA**

ORIGIN OF THE UNIVERSE...
FORMATION OF THE EARTH...
BEGINNINGS OF LIFE...
EVOLUTION OF THE BIOSPHERE...
ADVENT OF *HOMO SAPIENS*...

CSEOL invites applications for five graduate fellowships for 1995-96. *In addition* to support provided Fellows by UCLA departments, CSEOL will grant each Fellow a stipend of \$5,000 per year, *for each of the first two years* of graduate study, with no teaching or other duties. Stipends may be used for any purpose the Fellow deems appropriate -- travel, lodging, attendance at scientific meetings, purchase of books, computers, research equipment -- for any purpose, without restriction. Fellows are included in a select group of graduate students invited to interact with Center faculty in a weekly dinner/seminar/discussion series. Applicants should be planning to carry out doctoral research under the direction of a CSEOL faculty member in a subject area relating to **virtually any aspect of evolution -- of the cosmos, of the solar system, of Earth, of the environment, of life, of humans.** Areas of particular interest for 1995-96 include (1) planetary evolution and exobiology; (2) origin and early evolution of life; and (3) biochemical evolution and molecular phylogeny. Faculty are members of the **UCLA Departments of Anthropology, Astronomy, Atmospheric Sciences, Biology, Chemistry & Biochemistry, Computer Science, Earth & Space Sciences, Economics, Geography, History, Microbiology, Philosophy, psychology, and Sociology; the School of Medicine; the School of Public Health; the Institute of Geophysics and Planetary Physics; and the Molecular Biology Institute.** Fellowship applicants must apply (preferably, by 17 March 1995) both to an appropriate academic department and to CSEOL. For application forms and a list of CSEOL members, contact:

*CSEOL Fellows Committee
Geology Building, Room 5687
University of California, Los Angeles
Los Angeles, CA 9005-1567
Telephone: (310) 825-1170
FAX: (310) 825-0097*

NEW ENGLAND BIOLABS

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

Neural Plasticity/Gene Expression - A postdoctoral level scientist to work in our Cell Signaling Laboratory to study the regulation of neurotransmitter gene expression in cell culture and transgenic animal models. The project will involve analysis of intracellular signaling pathways and transcription factors regulating neuropeptide gene expression. Minimum requirements include a Ph.D. degree in Molecular Biology, Biochemistry, Neuroscience, or a related field with some experience in the molecular biology of signal transduction and gene regulation.

Research Technician - Minimum requirements include a B.S. in Molecular Biology, Chemistry, Biochemistry and some experience in molecular biology and protein biochemistry.

Interested candidates should submit a resume with three references to: Michael Comb, Ph.D.

In addition to a competitive salary, New England Biolabs offers a very generous fringe benefits package. Attendance at meetings, publication of research results and open communication with others are encouraged.

**New England Biolabs, Inc.
32 Tozer Road
Beverly, MA 01915-5510**

An Equal Opportunity Employer



NEW ENGLAND

Biolabs®

Research Scientist

Bio-Rad Laboratories is a world leader in the fields of life science research products, clinical diagnostics and analytical instruments. Our continued growth has created a need for a dynamic scientific professional to work in our Lab Products Division.

The successful candidate will have a BS/MS or equivalent in a biological science with 2+ years laboratory experience. Must have good working knowledge of current methods of electrophoresis, chromatography and associated techniques including the analysis and purification of proteins and nucleic acids and isoelectric focusing.

For consideration, please send your resume to: Bio-Rad Laboratories, 2000 Alfred Nobel Dr., Dept. 017, Hercules, CA 94547. An EEO/AA Employer.

BIO-RAD

Bio-Rad Laboratories

Our **Biotechnology Research group in West Haven, CT** has several openings for qualified and highly motivated scientists. You will be a member of a multidisciplinary research team discovering and characterizing proteins and genes of therapeutic value.

Senior Research Scientists

Cell Biologist

You should have demonstrated experience in the application of molecular cell biology to the study of mammalian development or disease processes. Proven expertise in one or more of the following areas is required: stem cell biology *in vivo* and *in vitro*; culture and functional analysis of differentiated cells; and analysis of gene expression *in situ*. A PhD and 4 years' postdoctoral experience are required.

Molecular Biologist

You should have demonstrated experience in molecular biology, preferably in the mammalian systems. Proven expertise in one or more of the following methodologies is required: expression cloning; subtractive or differential display gene discovery approaches; and genomic cloning strategies. A PhD with 4 years' postdoctoral experience are required.

Research Associate - Molecular Biology

The candidate should have proven experience in the following areas: DNA/RNA methodologies (subcloning, PCR, DNA sequencing), mammalian cell culture, transfection methodologies, and bioassay development. An MA or BA and 2-3 years' experience in a relevant area are required.

Miles offers a challenging scientific environment, excellent opportunities for individual growth, and attractive compensation and benefits packages. Resumes should be sent to: **Miles Inc., Pharmaceutical Division, Department AAJG, Mail Code HRA-B25, 400 Morgan Lane, West Haven, CT 06516.** An Equal Opportunity Employer M/F/D/V.

MILES

**Pharmaceutical
Division**



INTERNATIONAL CENTRE FOR RESEARCH IN AGROFORESTRY

ICRAF VACANCY ANNOUNCEMENT REGIONAL COORDINATOR FOR LATIN AMERICA

The International Centre for Research in Agroforestry (ICRAF) is an international research organization supported by the Consultative Group on International Agricultural Research (CGIAR). Its ultimate purpose is to help mitigate tropical deforestation, land depletion and rural poverty through the better use of trees and shrubs in crop and livestock production systems in humid, sub-humid and semi-arid tropics.

ICRAF is seeking to fill an internationally-recruited senior scientist position of Regional Coordinator for Latin America. The objective of this position is to coordinate and manage ICRAF's programme in Latin America in collaboration with other international centres, national and regional organizations undertaking agroforestry research and training.

The incumbent will therefore be expected to guide and monitor the output of the various projects in the region, and supervise ICRAF scientific and support staff working in this region. He/she will also ensure a focussed, efficient and collaborative development of ICRAF research efforts in Latin America; synthesize research output to provide guidelines for policy and decision makers, and for ICRAF's participation in the Alternative to Slash-and-Burn-Initiative. He/she will actively contribute to fund raising from donors and will also be responsible for ICRAF's annual programme of work and budget for Latin America. The position will be located in Porto Velho, Rondonia, Brazil.

The successful candidate must have a PhD degree or equivalent with at least 10 years of scientific and practical in biophysical or social science research in Latin America and be a recognised scientist in the region. He/she should have experience of successful collaborative work with Regional, National Institutions and policy makers; demonstrated ability to design, establish and coordinate research programmes. The candidate should have excellent command of English and be fluent in Spanish and/or Portuguese. Teaching experience and/or training and preparation of training material would be an asset. Ability to work in a cross-cultural and multi-disciplinary environment is essential.

Salary and perquisites are highly competitive. Benefits include housing and education allowances, annual leave, personal car and an excellent retirement and health insurance package. ICRAF offers a collegial and gender-sensitive working environment. Initial appointment is for two years, renewable with satisfactory performance.

Applicants are invited to send a detailed curriculum vitae, including date of birth, salary details and the names and addresses of three referees (including telephone and fax numbers or E-Mail address). All correspondence should be addressed to the Head of Human Resources, International Centre for Research in Agroforestry, P.O. Box 30677, Nairobi, Kenya Tel: (254-2) 521450; E-Mail: R.Lecuyer@CGNET.COM Fax: (254-2) 521001.

Applications will be considered until 1 April, 1995 or until position is filled.

ICRAF IS AN EQUAL OPPORTUNITY EMPLOYER

Senior Research Investigator to participate in interdisciplinary program directed toward the discovery of novel therapeutic modalities for the treatment of human infectious diseases, identify and evaluate potential molecular targets for the treatment of human pathogens, and develop models to detect anti-viral agents. Duties include evaluating specific molecular targets for anti-microbial efficacy, particularly human pathogens, e.g. influenza virus, herpes virus, retro viruses, picornaviruses, etc.; designing and implementing research projects; interacting with multi-disciplinary teams; reporting results to functional groups; defining the potential of putative drug candidates for inhibition of HIV replication to select for drug resistant viruses; characterizing the phenotype and genotype of drug resistant HIV isolates and correlating with shift in drug dose responses; formulating hypotheses and strategies to overcome HIV drug resistance; developing in vitro testing methodologies for the use of multiple protease inhibitors and other anti-retrovirus agents to establish optimal treatment combinations and to reduce the frequency of selection of drug resistant HIV in vitro and in vivo; developing strategies for the delivery of anti-HIV compounds, with different potential for the selection of drug resistant virus via metabolic activation; extending antiviral database for putative drug candidates to include multiple clinical HIV isolates; developing methodologies for the in vitro determination of putative drug candidate toxicity and metabolism, with particular emphasis on P450 metabolism; leadership of discovery team to identify selective inhibitors of herpes virus serine protease responsible for the maturational events required for viral replication; performance and development of assays to facilitate anti-HIV testing, enzyme biochemistry, inhibitor characterization, biodistribution, drug metabolism, X-ray crystallography, etc. associated with the discovery of a novel therapeutic agent; developing in vitro models for studying population dynamics of sensitive and resistant HIV quasispecies and CD4+ cell numbers in the presence and absence of HIV inhibitors. Must prepare publications & papers for presentation at relevant scientific meetings. Applicants must possess Ph.D. in Microbiology plus 3 years of experience in the job offered or 3 years as a Postdoctoral Fellow or Postdoctoral Researcher or Research Scientist. Must have conducted research in each of the following areas: viruses, including retroviruses, paramyxoviruses, orthomyxoviruses (including influenza A, B and C), picornaviruses, and vaccinia virus; biology and molecular virology, advanced cell culture systems relevant to the assay of viral replication in the context of the target tissue in the host organism; elucidation of protein-protein interactions; and experience in virus purification and the assay of virus-specific enzyme activities in vitro. 40 hrs. M/F 8 am to 4 pm \$55,000/yr. Send resume to Missouri Department of Labor and Industrial Relations, Division of Employment Security, Attn: Mrs. Jimmie Gaston, 13131 New Halls Ferry Road, Florissant, Missouri 63032, Reference #196673. AN EMPLOYER PAID AD.

NOTICE

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The Liver Tissue Procurement and Distribution System (LTPADS) is a National Institute of Health (NIH) service contract to provide human liver from regional centers for distribution to scientific investigators throughout the United States. These USA regional centers have active liver transplant programs with human subjects liver for which the transplant is performed. Therefore frozen or fresh tissue is available from subcontractors for the usual forms of childhood and adult cirrhosis, fulminant liver failure chronic rejection, and certain inborn errors of metabolism. Human pathologic liver prepared according to the investigator's specifications provides the opportunity to verify if animal liver investigations are relevant to human liver pathophysiology. The preparation of these livers has been excellent for the usual molecular biologic techniques for the past eight years. "Normal" liver specimens may be requested, however the supply is appropriately much more limited and completion of proposal requests take a longer time than for most pathologic liver specimens. NIH investigators are given preference for identical specimen requests.

Further information and proposal forms for interested investigators can be obtained from:

Harvey L. Sharp, M.D.
Principal Investigator, LTPADS
c/o Mankwe Ndosi
Box 279 UMHC
University of Minnesota Hospitals
Minneapolis, Minnesota 55455
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Fax: (612) 624-2682

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Ph.D. Chemical Engineer, 0-4 years past receipt of Doctorate, with experience in biosensors or cell biology. Experience in surface chemistry or material science a plus.

M.S., B.S. Cell Biologist with 2-4 years experience in rat cortical cell culture.

B.S., B.E. Electrical Engineer with 1-2 years experience in sensors.

Please send complete Curriculum Vitae including publications as well as salary requirements to:

Science Applications International Corporation
1710 Goodridge Drive
Department JHB64
McLean, Virginia 22102

Applicants selected will be subject to a background investigation.

THE

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BIOGEN

Oceanography Faculty Positions. The Department of Oceanography at Texas A&M University in College Station invites applications for two tenure-track faculty positions available 1 September 1995. We are expanding in the area of interdisciplinary studies, with emphasis on shelf and coastal oceanography. We seek candidates with a Ph.D. degree in the areas of phytoplankton dynamics or biogeochemical processes. Applicants should have interest in sea-going field programs and experience in oceanography that complements our current research activities, summarized on the Internet/ Web at URL <http://www-ocean.tamu.edu>.

The Department of Oceanography includes about 45 faculty, 100 graduate students and 130 undergraduate students at the main campus in College Station or the coastal campus in Galveston. The department operates the 55m research vessel Gyre and coastal vessels of various sizes.

With a student body of about 43,000, Texas A&M University ranks among the 10 largest in the United States in enrollment and research expenditures. The Oceanography Department resides in the College of Geosciences and Maritime Studies, which is also home to the Geochemical and Environmental Research Group, the Ocean Drilling Program, the Texas Institute for Oceanography, the Texas Center for Climate Studies, the Sea Grant program, and the Texas State Maritime Program.

The positions carry nine months per year of State salary support. Successful candidates will be encouraged to excel in teaching in their specialty areas and in general oceanography, and in addition develop vigorous interdisciplinary research programs with extramural funding. We expect to fill the positions at the assistant professor level but will consider exceptions. We actively seek women and minority candidates. A partner placement program is available. To apply, send a current curriculum vitae, a description of research and teaching interests, and the names and addresses of three professional references to: Department of Oceanography Search Committee, Texas A&M University, College Station, TX 77843-3146. The Search Committee will begin screening candidates on 1 March 1995.

Texas A&M University is an equal opportunity affirmative action employer.

ASSOCIATE RESEARCH SCIENTIST COLUMBIA UNIVERSITY

The Columbia-Presbyterian Cancer Center of Columbia University's Health Sciences Division is seeking an individual with experience in all aspects of transgenic technology to operate a core facility for the production of transgenic and chimeric mice, under the supervision of Dr. Frank Costantini. Expertise in both DNA and cell microinjection, and embryonic stem cell culture, is required, as is the ability to assist investigators with experimental design and interpretation. The applicant should have a PhD. and two years of relevant post-doctoral experience, although qualified individuals with a Master's degree and extensive experience will be considered. Send letter of application, including curriculum vitae and names of three references to Corinne Constantine, Columbia-Presbyterian Cancer Center, 630 West 168th Street, PH 18-200, New York, NY 10032. EOE



Grinnell College is accepting applications for a two-year appointment and a one-year leave replacement position in Biology. ASSISTANT PROFESSOR preferred, ASSOCIATE PROFESSOR possible. Beginning in August, 1995. Ph.D. required, post-doctoral experience preferred. Excellent facilities and financial support for student-faculty research are available. Letters of application should address interest in undergraduate teaching in a liberal-arts environment.

BIOLOGIST. Two-year (third year possible) appointment. Broadly trained and able to teach two introductory biology courses, "Structure and Function of Organisms" and "Evolution and Ecology", non-majors environmental science course, and an advanced course. Send curriculum vitae, three letters of recommendation and copies of all transcripts to Lenore Durkee, Biology Search Committee, Department of Biology, Grinnell College, Grinnell, IA, 50112-0806 (DURKEEL@ac.grin.edu, fax 515-269-4285). To be assured of full consideration, applications must be complete by March 20, 1995.

ANIMAL PHYSIOLOGIST. One-year sabbatical-replacement position. Ability to teach an upper-level course in animal physiology and an introductory course in the organismal biology of plants and animals. Send curriculum vitae, three letters of recommendation and copies of all transcripts to: Clark Lindgren, Animal Physiologist Search Committee, Department of Biology, Grinnell College, Grinnell, IA 50112-0806 (LINDGREN@ac.grin.edu, fax 515-269-4285). To be assured of full consideration, applications must be complete by March 1, 1995.

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Grinnell College is an Equal Opportunity, Affirmative Action employer and especially seeks women and minority candidates.

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RAISA activities are carried out by some hundred research teams, structured into four Subprojects:

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- SP3 biotechnologies in livestock production;
- SP4 biotechnologies in agricultural produce and by-product processing.

The main goal is to acquire the basic knowledge to foster the evolution of the Agricultural System toward a more equitable farmers' income, more sustainable exploitation of resources, better fulfillment of consumers' preference and nutritional demand.

A list of research trusts and teams is available upon request. The gross salary is from 3.0 million Lit. per month, according to the qualification, plus economy return ticket from home Institution to Italy.

Applicants should present a research proposal of about 3 pages, with their application, CV, and a letter of acceptance from a **RAISA** host team, to: **C.N.R. P.F. RAISA, Fellowship Program, Via Tiburtina 770, I 00159 Rome, Italy. Facsimile (+39 6) 4075883.**

Deadline for receipt of applications is February 28th, and successful candidates will be notified in March; they are expected to start their research in Italy within 1995.



**INTERNATIONAL CENTRE FOR
RESEARCH IN AGROFORESTRY**
ICRAF VACANCY ANNOUNCEMENT
PROJECT LEADER - DIAGNOSTIC STUDIES FOR THE AHI

ICRAF is an international research organization supported by the Consultative Group on International Agricultural Research (CGIAR). Its ultimate purpose is to help mitigate tropical deforestation, land depletion and rural poverty through the better use of trees and shrubs in crop and livestock production systems in the humid, sub-humid and semi-arid tropics.

ICRAF is coordinating a regional programme on integrated natural resources management research for enhancing land productivity in the highlands of eastern and central Africa, the African Highlands Initiative, (AHI) which involves national institutions and seven international agricultural research centres, working initially in Ethiopia, Kenya, Uganda and Madagascar. One component of this regional programme will be diagnostic and socioeconomic studies related to management of natural resources. The diagnostic work will be carried out by national teams of research scientist and development specialists including extensionists, representatives of NGOs, farmer groups and other CGIAR centres.

ICRAF is seeking to fill a position of Project Leader - Diagnostic Studies for the African Highland Initiative. Responsibilities will include establishing the diagnostic teams for each of the four AHI countries; coordinating the diagnostic and socioeconomic work of these teams and participating in some of this work; ensuring that the methods used by these teams are integrated with ICRAF's wider diagnosis activities and that results are integrated in ICRAF's GIS. The position will be based at ICRAF's headquarters in Nairobi, Kenya.

The successful candidate will have a PhD in biological or social sciences related to tropical agriculture, and relevant working experience. Working experience in eastern and central Africa would be an asset. English language is essential and preference will be given to those candidates with a working knowledge of French. Salary and perquisites are highly competitive. Benefits include housing and education allowances, annual home leave, personal car and an excellent retirement and health insurance package. Initial appointment is for two years, renewable with satisfactory performance. ICRAF offers a collegial and gender-sensitive working environment.

Applicants are invited to send a detailed curriculum vitae, including copies of 3 publications, date of birth, salary details and the names and addresses of three referees (including telephone and fax numbers). Nominations from individual or organizations are also welcome. All correspondence should be addressed to the Head of Human Resources, International Centre for Research in Agroforestry, P.O. Box 30677, Nairobi, Kenya Tel: (254-2) 521450; EMail: R.Lecuyet@CGNET.COM Fax: (254-2) 521001.

Applications will be considered until **15 February 1995** or until the position is filled. Women are particularly encouraged to apply.

ICRAF IS AN EQUAL OPPORTUNITY EMPLOYER

SCIENCE Special Advertising Supplement

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24 February 1995

Euroscience at Work examines the European life science job market. A practical career planning section for life scientists, *Euroscience at Work* looks at how pharmaceutical companies are adapting to the changing European market and gives an overview of the expanding European biotechnology industry.

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RESEARCH ASSOCIATE Reproductive Biologist

Ph.D. with at least three years of experience in tissue culture, radioimmunoassay, and molecular biology procedures utilizing fetal tissues and placenta, myometrium and cervix. We seek a highly motivated investigator, capable of generating independent funding and developing new research lines with pregnant sheep and nonhuman primates. Experience of experimental surgery and animal models helpful. Submit curriculum vitae, names and addresses of three references to: **Peter W. Nathanielsz, Director, Laboratory for Pregnancy and Newborn Research, Department of Physiology, Cornell University, Ithaca, NY 14853.** Cornell is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH SCIENTIST: Position available for a Molecular Biologist to study the molecular mechanisms by which scatter factor (hepatocyte growth factor) and the c-met receptor function in biological and pathological processes. Ph.D. in biological sciences with experience in molecular biology required. Competitive salary and benefits program. Please send résumé to: **Dr. Eliot Rosen, Head of Section Research, Department of Radiation Oncology, Long Island Jewish Medical Center, New Hyde Park, NY 11040.** Long Island Jewish Medical Center is the Long Island Campus for the Albert Einstein College of Medicine. An Equal Opportunity Employer.

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ENDOCRINOLOGY, DIABETES AND HYPERTENSION

The School of Medicine at University of Southern California seeks applicants for **PHYSICIAN/SCIENTIST** track in Medicine, Division of Endocrinology, Diabetes and Hypertension. Requirements: M.D. or M.D./Ph.D. with preparation in molecular cellular biology; preferred minimum of five years of full-time teaching/research experience. For more information, send inquiries and curriculum vitae to: **Willa Hsueh, M.D., Professor of Medicine, Chief of Endocrinology, Diabetes and Hypertension, LAC + USC Medical Center, 1200 North State Street, Room 8250, Los Angeles, CA 90033.**

BIOCHEMISTRY/CELL BIOLOGY

RESEARCH SCIENTIST position available requiring a strong background in organic and inorganic chemistry. Experience in steroid and polymer synthesis required. Interest in steroid biochemistry is considered very helpful. The successful candidate should have a demonstrated record of independent research and will interact with a multidisciplinary team heavily focused on androgen-related disorders of the hair and skin. A **POSTDOCTORAL POSITION** in epithelial stem cell biology is also open. The work will involve both cellular and molecular techniques utilizing *in vitro* and *in vivo* models of epidermal and fibroblast function with emphasis on hair reconstitution. The successful candidate should possess a recent Ph.D. or M.D./Ph.D. degree in cell biology or related discipline and have working knowledge of cell culture, growth factors, growth factor receptors, immunohistochemistry, SDS-page, and polymerase chain reaction.

Evaluations of applications will begin February 1, 1995. Applicants should mail or FAX a letter of application including curriculum vitae, and the name and telephone/FAX numbers of three references to: **Rozlyn Krajcik, Ph.D., Orentreich Foundation for the Advancement of Science, Inc., RD No. 2, Box 375, Cold Spring, NY 10516.** FAX: 914-265-4210.

POSITIONS OPEN

RESEARCH ASSOCIATE

The Division of Infectious Diseases, University of Pittsburgh School of Medicine, is seeking outstanding applicants for a **RESEARCH ASSOCIATE** to investigate the molecular basis of HIV drug resistance. Candidates should have a Ph.D. or equivalent. Full-time, non-tenure-track position (salary range \$25,000-\$35,000). Send curriculum vitae and names of three references to: **John Mellors, M.D., 403 Parran Hall, University of Pittsburgh, Graduate School of Public Health, 130 DeSoto Street, Pittsburgh, PA 15261.** FAX: 412-883-8926. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

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NEUROBIOLOGIST. The R.S. Dow Neurological Sciences Institute is opening a new position in the field of subcellular and cellular neurobiology. The Institute is committed to a strong interdisciplinary research environment. Candidates with research interests in the fields of biochemistry, molecular biology, pharmacology, and cell biology are encouraged to apply. Generous start-up funds, equipment and lab space are available. Level of appointment will depend upon research accomplishments.

Candidates should submit curriculum vitae, three letters of reference, and a brief statement of research goals by March 15, 1995, to: **Neurobiology Search Committee, R.S. Dow Neurological Sciences Institute, 1120 N.W. 20th Avenue, Portland, OR 97209.** An Equal Opportunity Employer.

The Seattle Biomedical Research Institute (SBRI) invites applications for **SENIOR** or **STAFF SCIENTIST** positions with corresponding appointments as **Regular** or **RESEARCH ASSISTANT** or **ASSOCIATE PROFESSORS** in the Department of Pathobiology at the University of Washington (UW). Applicants must have an independently funded research program on pathogens and/or host systems with which they interact and be willing to participate in graduate student training. The applicants' research should examine host cell processes that are perturbed by pathogens, mechanisms of pathogenesis or properties of pathogens or hosts that can be exploited to develop disease control measures. Please send curriculum vitae, statement of proposed research and three recommendation letters to: **Search Committee, Seattle Biomedical Research Institute, 4 Nacker Street, No. 200, Seattle, WA 98109-1651.** Closing Date: 15 February 1995. The UW is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. SBRI and UW are Equal Opportunity/Affirmative Action Employers.

ANNOUNCEMENTS

TRAVEL GRANT for the Sixth International Congress of Reproductive Immunology (Washington, DC, July 19-23, 1995). 20 NICHHD travel grants for graduate students, fellows or junior faculty are available to U.S. citizens or permanent residents working in reproductive immunology and presenting at the meeting; graduate students also submit two letters of support. Applications should be sent by March 1, 1995, to: **Dr. Thomas J. Gill III, Department of Pathology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261.**

CALL FOR PAPERS-COPENHAGEN-1995

February 28: 1st Research Conference on Women: Preparatory to Beijing; March 1: 1st Research Conference on Social Policy; March 2: 1st Scientific Conference on Abortion Research; March 3: 1st Convocation of World Religions on Abortion Ethics; March 4: 1st Scientific Conference on Overpopulation; March 5: International Population and Family Association Conference on Population, Social Policy, Family Life and Ethics.

Research, Policy and Ethics Papers are invited in person or by proxy. Proceedings will be published. Send abstracts of 250 words prior to February 13, 1995, to: **International Population and Family Association, 2814 Darby Street, Alexandria, LA 71301.** Telephone/FAX: 318-445-4059, c/o C. Cargille, President.

ANNOUNCEMENTS

UNDERGRADUATE RESEARCH

Several paid **RESEARCH POSITIONS** are available to minority undergraduates during summer 1995. Students will participate in ongoing biological research at the University of Oregon on topics involving evolution, genetics, development, molecular biology, population and conservation biology. These positions are funded as part of a NSF Training Grant on the Genetic Mechanisms of Evolution. To apply, send letter of application, transcript, résumé including statement of interests, and two letters of recommendation to: **Summer Program for Undergraduate Research, Department of Biology, University of Oregon, Eugene, OR 97403.** The University of Oregon is an Affirmative Action/Equal Opportunity Employer committed to cultural diversity and compliance with the Americans with Disabilities Act.

COURSES AND TRAINING

POSTDOCTORAL TRAINING PROGRAM Cellular/Molecular Biology of Aging


POSTDOCTORAL POSITIONS (Ph.D. or M.D.) are available for two years of specialized training in the methods and models of research on aging. This program is directed by a consortium which includes The Medical College of Pennsylvania and Hahnemann University (**Drs. V. J. Cristofalo, E. Friedman and J. Roberts**), Thomas Jefferson University (**Dr. R. Baserga**), Merck, Sharp and Dohme Research Labs (**Dr. W. W. Nichols**), Temple University (**Dr. N. Duker**) and the Wistar Institute (**Drs. D. Kritchevsky and E. Levine**). Research emphases include: cell cycle kinetics/dynamics; growth factor regulatory mechanisms; growth/senescence regulatory genes; cellular transformation and immortalization; regulation of gene expression; DNA repair; cytogenetic aspects of cell senescence/immortalization; nutrition, aging and cancer; caloric restriction; vascular cell physiology; cardiovascular physiology/pharmacology; and adrenergic neurotransmission. Minority candidates are especially encouraged to apply. Only those who meet National Research Service Award citizenship requirements are eligible. Address applications (curriculum vitae, three letters of recommendation and graduate school transcripts) to: **Vincent J. Cristofalo, Ph.D., Audrey Meyer Mars Professor and Director, Center for Gerontological Research, The Medical College of Pennsylvania and Hahnemann University, 2900 Queen Lane, Philadelphia, PA 19129.**

SYMPOSIUM

SEVENTH INTERNATIONAL SYMPOSIUM ON BASEMENT MEMBRANES

The National Institutes of Health announces the *Seventh International Symposium on Basement Membranes*, to be held at the National Institutes of Health, Bethesda, Maryland, USA, on June 29-30, 1995. The purpose of the Symposium is to review research progress and the current state of knowledge, and to exchange information and stimulate interdisciplinary research in this area. For registration information or travel fellowships for young investigators, address request to: **Basement Membranes, c/o ComputerCraft Corporation, 6011 Executive Boulevard, Suite 211, Rockville, MD 20852 USA.** The contact person is Fred Hill; telephone: 301-230-0052.

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