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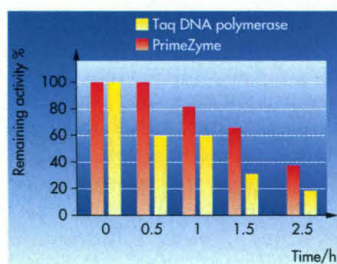
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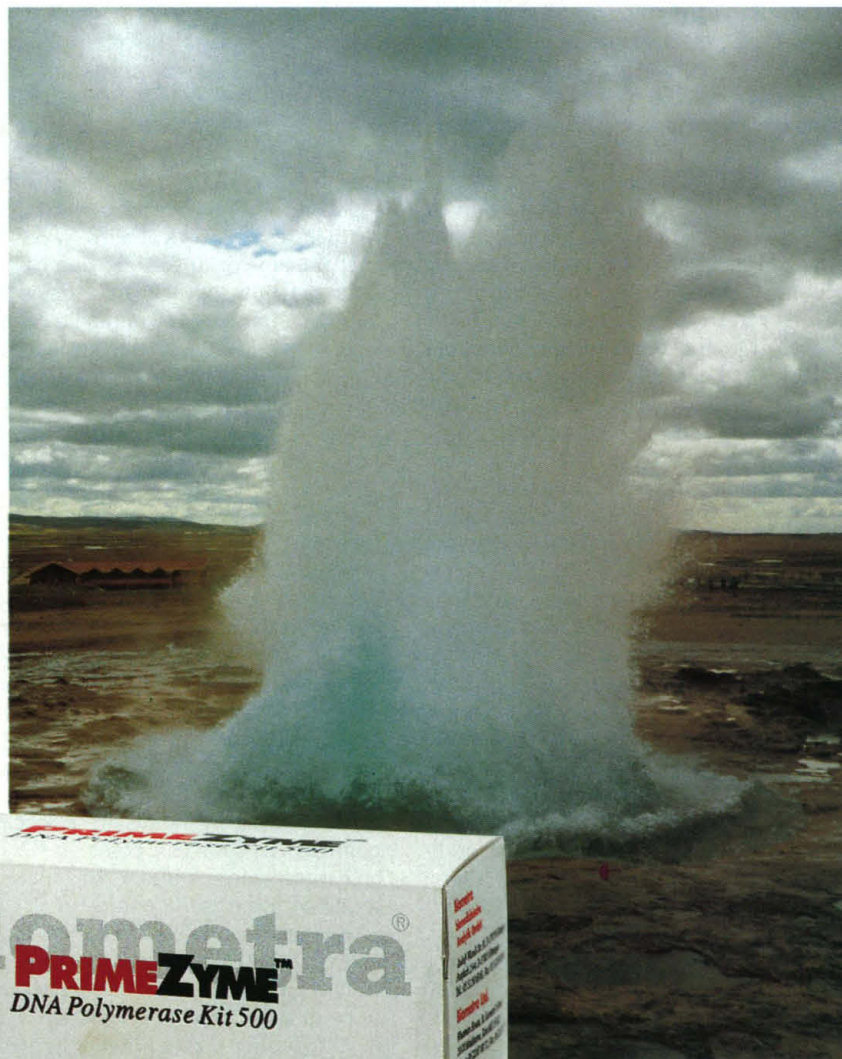
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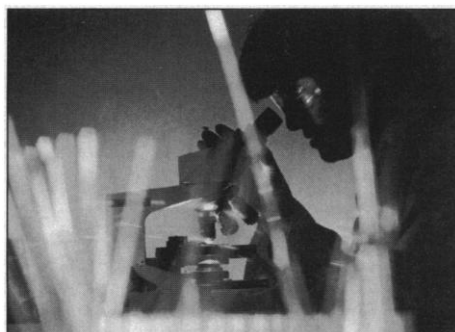
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The nm23-H1 gene product, also known as nucleoside diphosphate kinase A, is a possible mediator of cancer cell invasion and metastasis. Monoclonal antibody 37.6 reacts specifically with it in formalin-fixed, paraffin-embedded or frozen tissue sections. **BioGenex.** Circle 136.

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HPLC System Test Kit

The new HPLC System Test Kit provides a quick and easy way to test the performance of a high performance liquid chromatography (HPLC) system. The kit includes a C18 column and both isocratic and gradient test mixes. Use the kit at the beginning of a method to establish that the instrument is functioning properly and to establish a chromatogram fingerprint. When variation in the chromatogram occurs, simply use the test column on the system. Any deviation from

the fingerprint indicates a system-related problem, whereas reproduction of the fingerprint chromatogram indicates a column or method failure. **Phenomenex.** Circle 138.

Capillary Electrophoresis Kit

The eCAP dsDNA 20,000 kit for DNA analysis, teamed with the P/ACE Capillary Electrophoresis System, delivers automated, reproducible, and quantitative results in minutes, providing an attractive alternative to the traditional agarose slab gel method for DNA analysis of large fragments up to 20,000 base pairs. Qualitative and quantitative characterization of a DNA fragment from a plasmid digest or polymerase chain reaction amplification can be done immediately without prior sample preparation, including desalting. **Beckman Instruments.** Circle 139.

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TetraLink Tetrameric Avidin Resin can be used to tightly bind biotinylated proteins for applications including preparation of affinity resins for the purification of antibodies. The strong affinity of the avidin-biotin interaction allows release of biotinylated molecules only under strongly denaturing conditions. The resin can be used in conjunction with the PinPoint *in vivo* biotinylation systems, which produce biotinylated fusion proteins. The base support for TetraLink is a rigid methacrylate, polymeric gel filtration matrix that tolerates high flow rates and centrifugal forces in batch operation. **Promega.** Circle 140.

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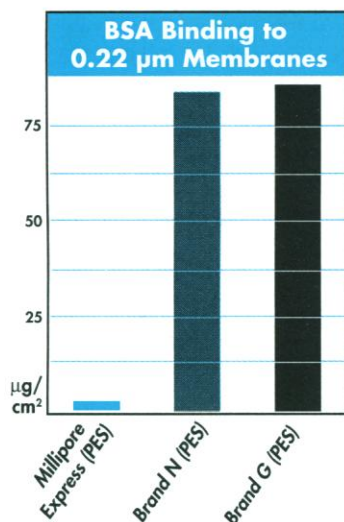
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tra Image can display an image of plate contents and save it for future use. On-board software offers curve fit, kinetics, and data reduction. The instrument can also be controlled through Microsoft Excel. **Tecan. Circle 141.**

DNA Ligation Kit

The Rapid DNA Ligation Kit eliminates overnight ligation incubations. The kit performs high-efficiency, blunt, and sticky-end DNA fragment ligations in under 5 min at ambient temperature, cutting a day out of cloning experiments. All reagents required for ligation are supplied with the kit, so there is no need for preparation of buffers and addition of adenosine triphosphate and Mg²⁺. **Boehringer Mannheim. Circle 142.**

Cell Purification Method

A new density perturbation technique allows the easy separation of cells on the basis of the immunological identity of the cell surface with the aid of antibody-coated nonmagnetic beads. Accubeads are significantly less expensive than magnetic beads and can give similar separations. The new method has a broad range of applications, for example, the separation of subsets of tissue culture cells and peripheral blood cells. **Accurate Chemical and Scientific. Circle 143.**

Genome Database CD-ROM

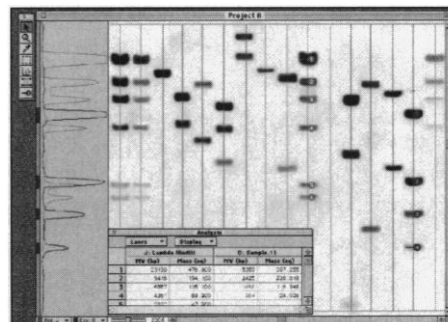
The Genome Interactive Database (GID), available on CD-ROM, is a collection of five interactive databases: GENATLAS, CEPH, CEPH/GENETHON, GENETHON, and GENSET. GID includes information about localizing genes and markers, the probes available for finding them, restriction fragment length polymorphisms, microsatellites, oligonucleotides for developing a sequence, the access number for a sequence bank, bibliographic references and abstracts from Medline, and more. **John Libbey Eurotext. Circle 144.**

Bacterial Lysates Without Centrifugation

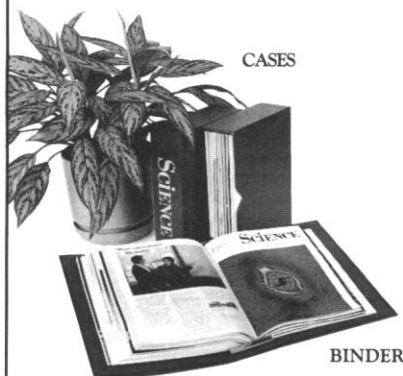
The new QIAfilter cartridge is a filter designed to replace the centrifugation step after alkaline lysis of bacterial cells. Neutralized bacterial lysates are cleared in seconds, reducing plasmid purification time by up to 1 hour. The cartridge completely removes small-sized sodium dodecyl sulfate precipitates that cannot be separated by conventional centrifugation. **Qiagen. Circle 145.**

Image Analysis Software

BioMax ID Image Analysis Software is designed to analyze nucleic acid and protein electrophoresis gels. It provides molecular weight and mass data in Macintosh and Windows environments. Acquired images



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POSITIONS OPEN



EVOLUTIONARY BIOLOGIST

The Department of Biology, University of Miami, invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR**. We seek an evolutionary biologist with strong quantitative skills. Preference is for a botanist using physiological, genetical, or ecological approaches who will contribute to existing departmental strengths in evolution, behavior, ecology, and tropical biology. Ph.D. degree required. The successful candidate will be expected to develop an innovative, externally funded research program, and to participate in teaching at the undergraduate and graduate levels. Applicants should send curriculum vitae, representative reprints, and summary of research interests, and arrange to have three letters of reference sent to: **William A. Searcy, Chair, Search Committee, Department of Biology, P.O. Box 249118, University of Miami, Coral Gables, FL 33124-0421**, by 7 December 1995.

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

FACULTY POSITIONS—ZOOLOGY WEBER STATE UNIVERSITY (WSU)

The Department of Zoology invites applications for two tenure-track positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level starting in September 1996. The Ph.D. is required. 1) Aquatic Ecologist with skills in fisheries: teaching responsibilities include general zoology, aquatic ecology and ichthyology. 2) Vertebrate Physiologist: teaching responsibilities include human physiology, human anatomy, and upper division classes, e.g. cell physiology and courses in specialty area. Research program involving undergraduates is expected. Send cover letter, statement of teaching philosophy and research interests, curriculum vitae, and one to three reprints. Have letters of reference sent to: **Dr. Samuel Zeveloff, Chair, Department of Zoology, c/o Human Resources, Weber State University, Ogden, Utah 84408-1016**. Telephone: 801-626-6165; FAX: 801-626-7445. Information about WSU is available on the World Wide Web (<http://WWW.WEBER.EDU>). Deadline: 1 December 1995. *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS CELL AND MOLECULAR BIOLOGY

Applications are invited for tenure-track positions, at the level of **ASSISTANT PROFESSOR**, in the Department of Cell and Molecular Biology at Northwestern University Medical School. Candidates must have a Ph.D. or equivalent degree, postdoctoral experience, and research experience in cell and molecular biology. The department is particularly interested in individuals with a strong record of productivity in the areas of cytoskeleton/cell motility, nuclear architecture and function, or biological structure using high resolution microscopic techniques. Applicants will be screened with respect to their ability to carry on vigorous, independent research and to participate in departmental teaching programs. Send a complete curriculum vitae and a brief description of research interests to: **Dr. Robert Goldman, Chair, Department of Cell and Molecular Biology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611**.

Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.

Physiology—Creighton University School of Dentistry is seeking a Physiologist for a full-time, tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level within the Department of Oral Biology. Position is available July 1, 1996.

Position qualifications include Ph.D. or equivalent. Primary responsibilities include teaching and research. Extensive facilities are available for collaborative research. Send curriculum vitae and names of three references to: **Dr. Joseph J. Keene, Jr., Chair, Department of Oral Biology, Creighton University School of Dentistry, 2500 California Plaza, Omaha, NE 68178**. *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

SEDIMENT BIOGEOCHEMISTRY MICROBIAL ECOLOGY REMOTE SENSING/GIS ASSISTANT OR ASSOCIATE RESEARCH FACULTY POSITION

The University of Georgia (UGA) Marine Institute on Sapelo Island, an institution with a 40-year history of coastal research, invites applications for a state-funded **RESEARCH FACULTY** position. We seek an individual with either outstanding potential or demonstrated expertise to develop a rigorous and dynamic research program. Preference will be given to candidates whose research is field- and process-oriented and in any of the following areas of estuarine research: Sediment Biogeochemistry; Microbial Ecology; Remote Sensing/GIS. The natural estuarine environments on Sapelo Island, especially the extensive salt marshes and sand beaches, offer an uncommon opportunity to conduct field-oriented studies without concern for uninvited human disturbances. The resident research faculty at the Marine Institute have no teaching obligations, but may hold adjunct appointments in academic departments, including the newly-formed Department of Marine Sciences, on the main campus of UGA. The position is available as early as 1 July 1996. Salary will be commensurate with experience and qualifications. Interested individuals should send a curriculum vitae, statement of research interests, and the names and addresses of three potential referees to:

**Dr. James J. Alberts, Director
UGA Marine Institute
Sapelo Island, GA 31327**

Application deadline is 15 December 1995

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ASSISTANT PROFESSOR

The Signal Transduction Laboratory of the Biotherapy Program at the University of Minnesota is seeking two faculty members to fill an annual, renewable, non-tenured **ASSISTANT PROFESSOR** position. Applicants should hold a Ph.D. or an equivalent degree and have expertise in the area of molecular biology and signal transduction. Laboratory space and adequate funds are available to allow the establishment of an outstanding research program. Applicants should submit: a curriculum vitae, reprints of selected publications, and the names, addresses and telephone numbers of three individuals whom the applicant has asked to submit letters of recommendation by November 1, 1995 to: **Search Committee c/o Dr. F. M. Uckun, University of Minnesota, Box 356 UMHC, 420 Delaware Street SE, Minneapolis, MN 55455**.

The University of Minnesota is an Equal Opportunity Educator and Employer.

ACADEMIC POSITION

ASSISTANT PROFESSOR. The Department of Chemistry and Biochemistry of The University of Texas at Austin solicits applications for a tenure-track assistant professorship beginning September 1, 1996. Exceptional candidates whose research training and interests are in areas of biochemistry and experimental physical chemistry are especially encouraged to apply. Review of applications will begin on November 1, 1995, and applications received after December 1, 1995, may not receive consideration. Candidates who have demonstrated outstanding research ability and show promise in teaching should forward a curriculum vitae, short descriptions of research plans, and three letters of reference to: **Search Committee, Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, TX 78712**. *Equal Opportunity/Affirmative Action Employer.*

ENDOWED CHAIR

The Department of Anesthesia, together with the Department of Cellular and Molecular Pharmacology at the University of California, San Francisco, seeks an outstanding investigator for an endowed chair, the first **William K. Hamilton PROFESSOR** of Anesthesia. The person will be responsible for research training of academic anesthesiologists and graduate students. Experience in basic cellular and molecular approaches relevant to anesthesia and pharmacology required. Send curriculum vitae and three reference letters by October 31, 1995 to: **Janine P. Wiener-Kronish, M.D., UCSF, Anesthesia and Cellular and Molecular Pharmacology, Box 0624, M-917, San Francisco, CA 94143-0648**. *University of California, San Francisco is an Equal Opportunity and Affirmative Action Employer.*

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POSITIONS OPEN

UNIVERSITY OF CALIFORNIA AT BERKELEY Department of Chemistry Faculty Position in Chemistry

The Chemistry Department at the University of California at Berkeley solicits applications for a position as **ASSISTANT PROFESSOR** of Chemistry, beginning in the fall of 1996, pending budgetary approval. Creative and energetic candidates in synthetic and physical chemistry, particularly materials chemistry, who show exceptional promise for research and teaching are specifically sought, although truly outstanding persons in any area of chemistry will be considered. Individuals selected for this position will be expected to establish an outstanding research program. Candidates should send a curriculum vitae, a proposed research program, and arrange to have three letters of recommendation sent to: **Chairman, Faculty Recruiting Committee 67, Department of Chemistry, University of California, Berkeley, CA 94720-1460.** The deadline for receipt of applications is December 1, 1995. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR of Biology—The University of Pittsburgh at Bradford invites applications for a tenure-track position beginning fall 1996. Applicants must have Ph.D. in some aspect of plant biology. Preference given to candidates with demonstrated teaching effectiveness, research experience, and a broad background in plant sciences. The successful candidate will be expected to teach courses in introductory biology, botany, genetics, ecology, and in area of expertise. Other duties include directing undergraduate research, academic advising, and developing collaborative interdisciplinary teaching programs.

Pitt-Bradford, Pennsylvania's public liberal arts college, is located in the Allegheny Mountains of northwestern Pennsylvania. Numerous outdoor recreational activities are found in the region. The metropolitan life of Toronto, Pittsburgh, and Buffalo is within a one to three hour drive.

Send curriculum vitae, letter of application stating teaching experience and research interests, official transcripts, and three letters of reference by November 30, 1995, to: **Dr. John S. Chandler, Biology Search Committee, University of Pittsburgh at Bradford, Bradford, PA 16701-2898.** *Affirmative Action/Equal Opportunity Employer.*

DEPARTMENT OF PATHOLOGY CHAIR

The Bowman Gray School of Medicine is seeking a **CHAIR** for the Department of Pathology. This senior investigator will be charged with developing strong, nationally visible programs in cancer research and in neuroscience and cardiovascular disease research. He or she will be expected to maintain strong existing programs in undergraduate and graduate education as well as to provide the vision to lead a large, successful, academic-based Pathology Department through the changing environment of managed care. Please send curriculum vitae, funding history, and the names of five references to:

Dr. Joseph Jorizzo
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Bowman Gray School of Medicine
of Wake Forest University
Medical Center Boulevard
Winston-Salem, NC 27157

Affirmative Action/Equal Opportunity Employer.

GROSS ANATOMIST

The Division of Preclinical Medical Education of the New York College of Osteopathic Medicine invites applications for the position of **ASSISTANT PROFESSOR** of Anatomy. Primary teaching responsibilities in Human Gross Anatomy. The ability to teach either Histology or Neuroanatomy is desirable. Applicants must have a Ph.D., experience teaching Human Gross Anatomy in a medical school environment, and a strong record of research and publications. 25% teaching and 75% research time. Research interests should complement the department's existing strengths in vertebrate paleontology and evolutionary biology. Deadline for receipt of applications is December 15, 1995. Please submit curriculum vitae and details of teaching/research experience, grant track record, and three references to: **Dr. Arnold L. Nagler (Associate Dean) and Dr. Nikos Solounias (Associate Professor of Anatomy), NYCOM, Old Westbury, NY 11568.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSOCIATE/FULL PROFESSOR Cell or Developmental Biology

The University of Iowa invites applications from cell or developmental biologists for the position of **ASSOCIATE** or **FULL PROFESSOR** in the Department of Biological Sciences. The successful candidate must have significant experience directing a strong, independent research program with high visibility in the research community, and the capacity to forge strong intra-university collaborations in research programs and centers. Teaching responsibilities will be in the area of cell or developmental biology. Preference will be given to applicants with research interests in vertebrate development or molecular cytology, but outstanding researchers in related areas are encouraged to apply. Please send curriculum vitae with a statement of research interests and names of three references to: **Dr. David R. Soll, Cell and Development Search Committee, Department of Biological Sciences, University of Iowa, 138 Biology Building, Iowa City, IA 52242-1324.** *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.*

CHILDREN'S HOSPITAL UNIVERSITY OF CINCINNATI Director, Developmental Biology

Applications are invited for the position of **DIRECTOR** of Developmental Biology and Albert Sabin Professor of Pediatrics to lead a well-established program in molecular and developmental biology. Candidates will be expected to direct their own outstanding research program, lead the Division of Developmental Biology (a 10 member Ph.D. faculty with primary focus to the molecular biology of mammalian development), participate in a well-established graduate program in developmental biology and interact with research activities in developmental sciences at the Children's Hospital Research Foundation and the University of Cincinnati College of Medicine. Candidates will have an M.D. and/or Ph.D. degree and an internationally recognized program in developmental molecular biology. Outstanding support facilities are available for the Director and the program. Send a letter of interest and curriculum vitae to: **Jeffrey A. Whitsett, Associate Chair of Pediatrics, c/o Search Committee, Children's Hospital Medical Center, Division of Pulmonary Biology, 3333 Burnet Avenue, Cincinnati, OH 45229-3039.** *Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.*

FACULTY POSITION Ben-Gurion University of the Negev Faculty of Health Sciences

The Faculty of Health Sciences invites applications for Alon Fellowship candidates leading to tenure-track **FACULTY POSITIONS** in Basic Medical Sciences. Candidates should utilize modern approaches in the following areas: microbiology, virology, human genetics, biochemistry, molecular biology, molecular oncology, molecular neurobiology, developmental biology, and immunology. A Ph.D. and/or M.D. degree and at least two years of postdoctoral training are required. Excellence in research will be of prime importance in the decisions of the Search Committee. Candidates are expected to develop independent research programs. Curriculum vitae, publication list, selected reprints, statement of research plans, and three letters of recommendation addressed to **Professor S. Segal, Dean** should reach the **Office of the Dean, Faculty of Health Sciences, Ben-Gurion University of the Negev, P. O. Box 653, 84105 Beersheva, Israel,** by November 15, 1995. **FAX: 972-7-277342.**

Department of Psychology, University of Illinois at Urbana-Champaign (UIUC), **ASSISTANT PROFESSOR**, Psychopharmacologist. The Department of Psychology of the University of Illinois at Urbana-Champaign invites applications for a full-time tenure-track faculty position beginning fall 1996. Candidates holding the Ph.D. degree and conducting research in any area of psychopharmacology/neuropharmacology that has a relationship to behavior will be considered. Teaching is at both undergraduate and graduate levels. Salary is dependent on qualifications and experience. For full consideration, a curriculum vitae, representative reprints, a statement of research interests, and three letters of recommendation should be sent by 31 January 1996 to: **William Greenough, Psychology Department, University of Illinois, Beckman Institute, 405 North Mathews, Urbana, IL 61801. Telephone: 217-333-4472.** *UIUC is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

UNIVERSITY OF CHICAGO Department of Organismal Biology and Anatomy

The Department of Organismal Biology and Anatomy seeks applicants for a **TENURE-TRACK** position beginning July 1, 1996. We expect to fill this position at the level of assistant professor, but individuals at a higher rank will also be considered. The Department seeks an individual who will develop an outstanding research program in, or overlapping with, the areas of developmental biology, biomechanics and physiology, or neurobiology, to build on the Department's existing strengths in these areas. We seek individuals studying organismal function in an integrative context. Teaching responsibilities will include undergraduate and graduate coursework. Applicants should submit a curriculum vitae, summary of research interests, and four letters of reference to: **OBA Search Committee Chair, University of Chicago, 1025 East 57th Street, Chicago, IL 60637.** Review of applications will commence 1 December 1995; however, applications will be accepted until the position has been filled.

The University of Chicago is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are strongly encouraged to apply.

Morehead State University seeks applications from talented and innovative individuals to **CHAIR** the Department of Biological and Environmental Sciences. The twelve-month, tenure-track position will be available July 1, 1996. The Department Chair provides academic/administrative leadership for B.S. degrees in biology, environmental science, medical technology, and a M.S. degree in biology. Additional responsibilities include oversight for departmental budget, class scheduling, faculty/staff recruitment and evaluation, promotion of scholarly activities, and service involvement. The Chair will also advise and teach undergraduate and/or graduate students, and work with personnel across the University. Qualifications: Ph.D. in one of the department disciplines from a regionally accredited institution. Minimum of seven years full-time university teaching experience. Demonstrated proficiency in teaching, scholarly activity, service, leadership, and strong interpersonal and communication skills. Candidate should have qualifications appropriate for rank of professor with tenure. To ensure consideration, submit letter of application, résumé, statements of teaching and administrative philosophies, transcripts for the terminal degree, and names, addresses, and telephone numbers of five references by November 17, 1995, to: **Office of Human Resources, Attn: Chair, Biological and Environmental Sciences, Morehead State University, HM 101, Morehead, KY 40351.** *MSU is an Affirmative Action/American Disabilities Act/Equal Opportunity Employer. The University has a strong commitment to the principles of diversity and seeks a broad spectrum of candidates including women, minorities, and individuals with disabilities.*

Biologist. Tenure-track **ASSISTANT PROFESSOR** to begin 16 August 1996. We seek a biologist using modern approaches to study the structure and function of animal cells and tissues. Establishment of a strong, independent research program and direction of graduate students is expected. Will teach histology or cytology and participate in a team-taught introductory biology course. Ph.D. required and postdoctoral experience desirable. Send curriculum vitae, three representative reprints, and statements of teaching and research interests, and have three letters of recommendation sent to: **Chair, Biologist Search Committee, University of North Dakota, Grand Forks, ND 58202-9019.** Review of applications will begin on November 15, 1995 and continue until the position is filled. *The University of North Dakota is an Affirmative Action/Equal Opportunity Employer.*

NMR Spectroscopists. As part of a major commitment to the development of structural biology at the University of Pennsylvania, the Department of Biochemistry and Biophysics invites applications for tenure-track positions in NMR spectroscopy at the **ASSISTANT, ASSOCIATE AND FULL PROFESSOR** levels. Applicants should have demonstrated expertise and accomplishments in modern multidimensional NMR with a strong background in protein and/or nucleic acid structure, dynamics, and function. Please forward curriculum vitae and a statement of background and future scientific intentions, and have three letters of recommendation sent to: **Ruth Keris, Department of Biochemistry and Biophysics, 414 Anatomy-Chemistry Building, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6059.** *The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer. Applications from women and minorities are encouraged.*

**DEAN, COLLEGE OF TROPICAL AGRICULTURE & HUMAN
RESOURCES - UNIVERSITY OF HAWAII AT MANOA**

The University of Hawaii at Manoa (UHM) invites applications and nominations for the position of Dean of the College of Tropical Agriculture and Human Resources (CTAHR). Dynamic leadership that recognizes innovative training in undergraduate and graduate programs, promotes research necessary to diversify and sustain Hawaii's agricultural industry, enhances consumer education, and contributes to an expanded economy are expected. Founded in 1907, UHM is Hawaii's land-grant institution that has a student population of over 20,000 and 3,000 faculty and staff.

The College: Established at the founding of the University, CTAHR offers the full range of undergraduate and graduate degrees (10 baccalaureate, 10 master's and 6 Ph.D. programs) in 11 departments: Agricultural and Resource Economics, Agronomy and Soil Science, Animal Sciences, Biosystems Engineering, Entomology, Environmental Biochemistry, Food Science and Human Nutrition, Horticulture, Human Resources, Plant Molecular Physiology, and Plant Pathology. The research and extension missions of the College are centered in the Hawaii Institute of Tropical Agriculture and Human Resources (HITAHR), which oversees the Cooperative Extension Service as well as a network of Hawaii Agricultural Experiment Stations. The College has a challenging leadership role in transforming Hawaii's agriculture and communities as the dominance of sugar and pineapple fades.

Duties: The line of reporting of the CTAHR dean is currently under reorganization. Overall, the dean serves as the chief academic and administrative officer of the College; oversees a budget in excess of \$20 million, extramural funds averaging close to \$12 million per annum, approximately 250 FTE instructional and research faculty, specialists, and extensions agents in four counties covering six islands, and over 550 undergraduate and graduate students; serves on the Governor's Agricultural Coordinating Committee; encourages synergism among units in the College and with other campus colleges, institutes, and departments; and collaborates with the UH-Hilo College of Agriculture.

Salary: Commensurate with qualifications.

Starting Date: January 1, 1996, or as soon thereafter as possible.

Qualification Requirements and Application Information: A complete job description is available by calling Dean Chuck Gee at (808) 956-7166. Although applications will continue to be considered until the position is filled, screening will commence on October 30, 1995. Applications should include a curriculum vitae, a statement addressing specific minimum and desirable qualifications. Applicants should also have three letters of reference sent directly to Dean Chuck Gee, Chair, CTAHR Dean Search Committee, School of Travel Industry Management, University of Hawaii at Manoa, 2560 Campus Road, Honolulu, HI 96822.

The University of Hawaii is an Affirmative Action, Equal Employment Opportunity Employer. Women and minority candidates are encouraged to apply.

**Dean of Medicine and
Vice President
for Medical Affairs**

Case Western Reserve University invites applications and nominations for the position of Dean of Medicine and Vice President for Medical Affairs.

The Dean of Medicine and Vice President for Medical Affairs serves as chief executive officer of the School of Medicine and as the principal advisor to the President and Board of Trustees on all matters related to the teaching, research, and clinical activities of the Faculty of Medicine. In addition, the Dean and Vice President provides coordination for joint planning conducted by the deans of the university's three health science schools (dentistry, medicine, and nursing). The Dean and Vice President reports directly to the President and serves as a member of the council that advises the President on academic and administrative issues affecting the entire institution.

Founded in 1843, the School of Medicine is one of the world's leading centers of medical education and research, ranking 12th in funding from the National Institutes of Health. The school has a full-time faculty of more than 1,300 and enrolls over 1,000 students in curricula leading to the M.D. and to the M.S., Ph.D., and M.D.-Ph.D. degrees in the biomedical sciences. The school's budget for 1995-96 is approximately \$153 million, of which about two-thirds represents external support for research.

Applications and nominations may be submitted for review by the search advisory committee:

Chair, Search Advisory Committee for Dean of Medicine
and Vice President for Medical Affairs
c/o Office of the President
Case Western Reserve University
Cleveland, OH 44106-7001

Review of materials will begin immediately and continue until an appointment is made. To ensure full consideration, applications and nominations should be received by December 15, 1995. The anticipated appointment date is July 1, 1996.

In employment, as in education, Case Western Reserve University is committed to affirmative action and equal opportunity.



CASE WESTERN RESERVE UNIVERSITY

GLOBAL CAREER OPPORTUNITIES



**UNIVERSITY
COLLEGE
LONDON**

**Lectureship in
History and
Philosophy
of Biology**

Applications are invited for the above post for candidates suitably qualified in the History and Philosophy of Biology. The candidate is expected to have teaching and research potential to fit into the Department's undergraduate and graduate programmes.

The salary is on the Lecturer A/B scale, £15,154 - £26,430 per annum plus £2,134 per annum London Allowance. Completed applications should include a full CV, description of research interests and sample publications.

Enquiries and applications to: Professor A I Miller, Department of History, Philosophy and Communication of Science, University College London, Gower Street, London WC1E 6BT. (Tel: +44 171 391 1328; Fax: +44 171 916 2425; email: a.miller@ucl.ac.uk).

We would expect to fill this position in January 1996.

Closing date: 31 October 1995.

Working towards Equal Opportunity
**PURSuing EXCELLENCE IN
EDUCATION AND RESEARCH**

Immunologist/Biochemist

At Hewlett-Packard's Bioscience Products Organization in Palo Alto, California, our investments in Research & Development is one of the highest among Fortune 500 companies. Currently, we are seeking a creative, motivated Research & Development professional who is interested in expanding the boundaries of technology.

An opportunity exists for a skilled and motivated scientist to join a multi-disciplinary team developing novel diagnostics with experience in antibody-based technology including the generation, purification and characterization of monoclonal antibodies. You should also have experience generating and handling antibody fragments, as well as labeling. Abs by a variety of techniques. Experience with HPLC, CE, ELISAs and PAGE is necessary. Experience with CE analysis of Ab-Ag interactions, bispecific ABS, or phage display Abs is a plus. Requires a PhD in Immunology or Biochemistry with 2+ years' experience. Demonstrated ability to work successfully in a team environment and excellent spoken and written English a must. Experience with product development desirable.

Hewlett-Packard Company offers a competitive salary and benefits package. To apply for this Palo Alto, California opening, please send your resume to: Hewlett-Packard Company, Attn: Ad #2672/39698, 1266 Kifer Road, MS100D-EY, Sunnyvale, CA 94086 or e-mail: elaine.yaman@hp2200.desk.hp.com Hewlett-Packard Company is an equal opportunity employer dedicated to affirmative action and work force diversity.



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PACKARD**

POSITIONS OPEN

FACULTY POSITION IN MICROBIOLOGY Southern Illinois University at Carbondale

Applications are invited for a tenure-track position in the Department of Microbiology at the level of **ASSISTANT PROFESSOR** commencing August 16, 1996. In addition to establishing a strong research program, teaching microbiology to both graduate and undergraduate students is expected. Preference will be given to a microbiologist who works on the molecular biology/molecular genetics of pathogenic microorganisms or viruses; or the molecular biology/molecular genetics of host-pathogen interactions, including host responses to pathogens. The applicant must hold an earned doctorate in microbiology or a related field and must have postdoctoral research experience. The applicant must display evidence of research accomplishments in microbiology and the ability to establish an independently funded research program in microbiology. Salary, research facilities and start-up funds will be competitive. Applications will be accepted until December 1, 1995, or until the position is filled. Applicants should submit a letter of application, a brief proposed research plan, curriculum vitae, and arrange to have three confidential letters of recommendation sent to: **Dr. Douglas Fix, Chair, Microbiology Search Committee, Department of Microbiology, Southern Illinois University at Carbondale, Carbondale, IL 62901-6508.** *Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action Employer.*

THE OHIO STATE UNIVERSITY Faculty Positions in Molecular Neurobiology

Applications are invited for two tenure-track faculty positions at the **ASSISTANT, ASSOCIATE** or **FULL PROFESSOR** level. The successful candidates will join the seven current faculty in new laboratories at the Neurobiotechnology Center. The new faculty members will be expected to apply molecular biological approaches to address significant problems in neurobiology, with one position emphasizing the use of vertebrate model systems including zebrafish. A transgenic mouse facility and other excellent support facilities are available in the Neurobiotechnology Center. The Ohio State University has made a major commitment to establish an outstanding interdisciplinary program in molecular neurobiology, which is a focus area for further development under a Molecular Life Science initiative. Applicants should submit a curriculum vitae, statement of research plans, and arrange to have three letters of reference sent to: **Chair, Molecular Neurobiology Search Committee, Neurobiotechnology Center, The Ohio State University, 206 Rightmire Hall, 1060 Carmack Road, Columbus, OH 43210.** Deadline for receipt of applications is December 15, 1995. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.*

BETH ISRAEL HOSPITAL HARVARD MEDICAL SCHOOL DEPARTMENTS OF PATHOLOGY

The Harvard Department of Pathology at Beth Israel Hospital seeks well-qualified applicants (Ph.D., M.D./Ph.D. or M.D.) for one or possibly two **ASSISTANT** or **ASSOCIATE PROFESSOR** positions as part of an expansion of our basic research program in tumor biology into new laboratory space. At minimum, candidates should have completed three to five years of relevant postdoctoral experience and should have the capability of directing an independent research program in an academic setting in areas of tumor biology such as tumor stroma and its generation, angiogenesis, the tumor microvasculature, tumor invasion or metastasis. Candidates are expected to participate in the teaching activities of the department, i.e., medical students, residents, graduate students and postdoctoral fellows. Major areas of interest include angiogenesis and stroma generation, parenchymal-stromal interactions and VPF/VEGF and its receptors and wound healing. Applicants should send curriculum vitae, a statement of research interests, and three references to: **Harold F. Dvorak, M.D., Chief, Department of Pathology, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215.** *Beth Israel Hospital and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.*

POSITIONS OPEN

ENDOWED CHAIR

University of North Carolina at Greensboro (UNCG) announces a search for the Marie Foscue Rourke **PROFESSOR** of Chemistry, a new, endowed position. The position will be filled by a person with a strong chemistry background whose research interests are in any area of biological chemistry. We are looking for an individual who currently holds the rank of Associate Professor or Professor; the appointment will be made at the full professor level with tenure. The successful candidate will have a record of teaching, publication, and grant awards that merits appointment to the Marie Foscue Rourke Professorship. Teaching at both the undergraduate and graduate levels is expected. The Department of Chemistry at UNCG offers the B.A., B.S. (ACS certified), and the M.S. degrees. A B.S. degree program in biochemistry is being planned. The Professor is encouraged to collaborate with faculty in other departments, such as Biology, and in Ph.D.-granting areas, such as Foods and Nutrition. He or she will also be involved in hiring new faculty in the biochemistry area. Salary and support for research from the endowment are negotiable. Please send curriculum vitae, a synopsis of current and planned research activities, and arrange for three letters of recommendation to be sent to: **Dr. M. F. Farona, Head, Search Committee, Department of Chemistry, UNC-Greensboro, Greensboro, NC 27412.** Applications must be received by December 1, 1995. *Equal Employment Opportunity/Affirmative Action: Women/Minorities/Veterans/Disabled.*

BIOLOGICAL SCIENCES MESA STATE COLLEGE

Invites applications for an **ASSISTANT PROFESSOR**, tenure-track position available August 1996. Ph.D. in Biology required. Teaching assignment will include introductory and upper division courses, 12 credit hours per semester. Preference will be given to candidates with significant coursework and/or research in microbial ecology. Send curriculum vitae, statement of teaching and research interests, all college transcripts, and names of three references to: **Robert E. Kribel—Dean, School of Natural Sciences and Mathematics, Mesa State College, P. O. Box 2647, Grand Junction, CO 81502.** Deadline January 17, 1996. *Mesa State College is an Affirmative Action/Equal Opportunity Employer. Mesa State College is a drug-free workplace. All employees of the College must agree to abide by our drug free policy as a condition of employment.*

MOLECULAR MODELING IMAGE RECONSTRUCTION SOFTWARE SUPPORT

The University of Virginia ITC—Academic Computing Health Sciences (ACHS) Center invites applications for a Professional **FACULTY** position (non-tenure-track) to provide support for molecular modeling and three-dimensional imaging. Individuals with training at the M.S. or Ph.D. level in molecular modeling, x-ray crystallography, three-dimensional image reconstruction, or low-light fluorescence detection are encouraged to apply. The individual will collaborate with faculty on modeling and imaging projects, participate in graduate courses on protein structure and image analysis, and support molecular modeling and image acquisition/analysis software. Send a complete curriculum vitae, representative publications, and three letters of reference to: **Ross Wayland ITCACHS, Health Sciences Center Box 555, University of Virginia, Charlottesville, VA 22908.** FAX: 804-982-4030; Email: rlw@virginia.EDU. Review of applications is ongoing; applications should be completed by November 15, 1995. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF BIOLOGY

TENURE-TRACK beginning August 20, 1996. Animal Physiology. Teaching includes animal and human physiology as well as participation in an introductory core course for majors. Must participate actively in undergraduate and Master's level research. Ph.D. required and postdoctoral experience desired. Screening of applicants will begin December 15, 1995. Send letter of application, résumé, transcripts, and three letters of recommendation to: **Dr. John DePinto, Department of Biology, Bradley University, Peoria, IL 61625.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

Biochemist/Williams College—The Chemistry Department invites applications for a tenure-eligible position at the **ASSISTANT PROFESSOR** level for fall 1996. (Senior appointment possible in exceptional circumstances.) This will be an initial appointment for a three-year term with teaching assignments in biochemistry and introductory chemistry. A semester teaching load normally includes complete responsibility for one course and two laboratory sections, and supervision of student research projects. Candidates should have the Ph.D. or completed dissertation by September 1996 (postdoctoral experience is preferred) and a strong commitment to teaching at the undergraduate level and developing a productive research program. Williams College is a highly selective, coeducational liberal arts institution of approximately 230 faculty and 2000 undergraduates, located in northwestern Massachusetts. The Chemistry Department, with ten faculty members and 30 to 35 majors each year, is accredited by the ACS and has excellent facilities for teaching and research. A new 40-million dollar science complex will be completed in the year 2000. *The College is actively working to increase the ethnic and gender diversity of its science majors and seeks an individual who can help us meet these goals.* Send résumé, undergraduate and graduate transcripts, description of research projects for undergraduates, and three letters of recommendation to: **Professor John W. Thoman, Jr., Chair, Department of Chemistry, Williams College, Williamstown, MA 01267,** by November 30, 1995. *Williams is an Equal Opportunity/Affirmative Action Employer.*

Biology—Two tenure-track positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level: Illinois College, a Phi Beta Kappa, church-related college in West Central Illinois, seeks candidates with broad interests in biology who have completed the Ph.D. and have a strong commitment to undergraduate teaching in a liberal arts college. Preference will be given to applicants who have experience in directing student research and advising pre-professional students. This growing department of biology currently has 100 majors.

One applicant should be prepared to teach courses in botany, an advanced field biology course in his or her area of specialization, and alternate teaching of the freshman introductory biology course. A small field station is located near the campus, and opportunities for field work with various governmental agencies are available.

One applicant should be prepared to teach cell/molecular biology, genetics, and an advanced course in his or her area of specialization.

Send application, curriculum vitae, transcripts, and the names, addresses and telephone numbers of three references to: **Dr. Elaine Chapman, Department of Biology, Illinois College, Jacksonville, IL 62650.** Screening of applications will begin November 1, 1995. *Illinois College is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT/ASSOCIATE PROFESSOR

The University of Illinois College of Medicine at Rockford seeks to add a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** of microbiology to its diversified Department of Biomedical Sciences. The specific research area is open, although it is expected to involve studies at the molecular level. Contribution to the virology section of a team-taught course in medical microbiology is expected. Submit curriculum vitae, a short statement of research interests, and the names, addresses and telephone numbers of three references to: **Dr. Fu-Li Yu, Professor and Head, Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107.** Review of applications will begin December 1, 1995, and continue until the position is filled. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

The University of Iowa Department of Internal Medicine is seeking **FACULTY** for positions in a new program focusing on the cell and molecular biology of inflammation. Qualifications include Ph.D. degree. Expertise in the cell biology of phagocytes, endothelial cells, complement, and leukocyte-endothelial cell interacting and the ability to be an independent investigator with an established research program competitive for NIH and other external funding are desirable. Salary is based on the academic level of entry and on the applicant's qualifications and responsibilities. Candidates should submit curriculum vitae to: **Randall Jordison, Assistant to the Chairman, Department of Internal Medicine, SE309 GH, The University of Iowa, Iowa City, IA 52242.** *The University of Iowa is an Equal Opportunity and Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

Postdoctoral Research Fellowships for Physicians

1996 Competition

30 Fellowships will be awarded to physicians by the Howard Hughes Medical Institute for three years of training in fundamental biomedical research. Awards, based on an international competition, focus on research directed to understanding basic biological processes and disease mechanisms. Fellowships may be held at any academic or nonprofit research institution, including but not limited to Hughes laboratories.

Fellowship Terms

- Three years of support
- Full-time fundamental research
- \$40,000–\$57,500 annual stipend
- \$16,000 annual research allowance
- \$13,000 annual institutional allowance

Eligibility

- M.D., M.D./Ph.D., M.B.B.S., or D.O., with the first medical degree awarded no earlier than 1986
- At the start of the fellowship
 - at least two years of postgraduate clinical training completed
 - no more than two years of postdoctoral research training completed
- Applicants (and fellows) may not have faculty appointments
- Fellows may not be enrolled in graduate degree programs
- No citizenship requirements: U.S. citizens may study abroad, but others must study in the United States

Schedule

- Application deadline: December 18, 1995
- Awards announced: July 1996
- Fellowships start: September 1, 1996–September 1, 1997

1996 Program Announcements and Applications

Howard Hughes Medical Institute
Office of Grants and Special Programs
Department CC96
4000 Jones Bridge Road
Chevy Chase, MD 20815-6789, United States of America
Telephone: (301)215-8889
Fax: (301) 215-8888
E-mail: fellows@hq.hhmi.org

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.

RECRUITMENT ADVERTISERS

California Careers Forecast

Issue date: 1 December
Space Reservation Deadline: 10 November

In this special advertorial, we will look at current trends and news surrounding the biotech and pharmaceutical industry in California, making this issue an excellent opportunity to draw more attention to the scientific career opportunities available within your company.

TAKE ADVANTAGE OF OUR 25% DISCOUNT!

Repeat your ad within 8 weeks and receive 25% off the second placement!

FREE PLACEMENT ON SCIENCE Global Career Network!

Every advertisement in the 10 November issue receives placement on the Science world wide web service.

SCIENCE Global Career Network address: <http://www.aaas.org>

For more information or to reserve your space,
call Janis Crowley at (202) 326-6532.

SCIENCE
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Minority Advertising Supplement with Bonus Distribution to 27 Minority Organizations

"Diversity and the Scientific Community"

Issue date: 10 November
Space Reservation deadline: 24 October

Four Great Reasons to Advertise!

1. Bonus Distribution to 27 Minority Organizations.

Reach minority scientists with your recruitment message through bonus distributions.

2. Preferred placement for full page advertisers.

Full page advertisers receive placement in the special advertising section. An index of full page advertisers on the cover of the bonus distribution copies will direct readers to your ad in the section.

3. Career planning information delivers added impact.

The minority special advertising supplement contains valuable reference charts and scholarship information to be saved and used as a career planning resource.

4. FREE placement on SCIENCE Global Career Network.

Every advertisement in the 10 November issue receives placement on the Science world wide web service. Also, full page ads receive a feature index listing that allows on-line users to link instantly to your ad.

For more information or to reserve your space,
call Janis Crowley, (202) 326-6532.

SCIENCE Global Career Network
address: <http://www.aaas.org>

SCIENCE
COVERS THE WORLD



COLBY

Plant Biologist

Colby College is seeking a Plant Biologist to fill a tenure-track position as Assistant Professor of Biology to begin September, 1996. Women candidates will be considered for a Clare Boothe Luce endowed chair that provides dedicated annual research funds and salaries for undergraduate research assistants. Candidates should have a Ph.D., experience working with undergraduates in the laboratory or classroom, and a strong commitment to undergraduate education. Applicants are sought who have broad training in the botanical sciences and special interest and expertise in the cellular and molecular aspects of plant biology. Courses taught will include courses in the candidate's discipline, a course in plant physiology, and team teaching in the introductory course in some years. An active research program, including supervision of undergraduate research, will be expected. Familiarity with liberal arts colleges and/or post-doctoral training are desired.

Please submit a letter of application, statement of teaching interests and experiences, statement of research interests, curriculum vitae, reprints of up to three publications, undergraduate and graduate transcripts, and three letters of recommendation to: **Professor F. Russel Cole, Chair, Department of Biology, Colby College, Waterville, ME 04901.** Application review will begin after December 15, 1995. *Colby College is an Affirmative Action/Equal Opportunity Employer, and encourages applications from minorities and women.*

OPPORTUNITIES IN RNA RESEARCH

As part of a major restructuring of our anti-infective research capabilities, we are seeking to appoint postdoctoral and graduate scientists in an expanding research group focusing on the application of RNA research in anti-infective drug development. Topics under investigation include both RNA-based chemotherapeutic targets and the use of RNA as a research tool to probe macromolecular interactions.

Ph.D. applicants should have a minimum of three years' experience in one or more of the following technologies: *in vitro* RNA/RNA-ligand structure probing, *in vitro* translation systems, molecular biology, general RNA and protein biochemistry. Experience with bioinformatics is also desirable. MS/BS applicants, preferably with up to five years' related research experience, are also invited to apply for positions within this group.

These appointments will provide the opportunity to work at the forefront of this exciting area in a highly motivating work environment and in conjunction with leading academic departments worldwide.

Our newly acquired, state-of-the-art research facility is located at Upper Providence, in suburban Philadelphia. SmithKline Beecham offers an excellent compensation/benefits/relocation package and a stimulating team environment. For confidential consideration, please send your resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code MR002, P.O. Box 2645, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.



SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.



Wayne State University

Wayne State University ASSISTANT/ASSOCIATE PROFESSOR OF ANATOMY AND CELL BIOLOGY

The Department of Anatomy and Cell Biology, Wayne State University School of Medicine invites applications for two tenure-track positions at the assistant/associate professor level. For one position, the department seeks an individual whose interests complement the research foci of the department in visual science/neuroscience. Applications are invited from candidates with expertise in molecular or cellular biology. For the second tenure track position to be held jointly in the departments of Anatomy and Cell Biology and Ophthalmology, the departments seek a candidate whose research is focused in the area of molecular biology/genetics of ocular diseases. The successful candidates will be expected to have or to establish a well-funded, independent research program and to participate in teaching. Excellent start-up funds and laboratory space are available and collaboration is fostered by a Core Vision Grant. Applicants should have a Ph.D. or M.D. degree and postdoctoral experience. The search committee will accept applications until the positions are filled. Candidates should submit a letter, curriculum vitae and the names of three references to: Linda Hazlett, Ph.D., Chair, Department of Anatomy and Cell Biology, Wayne State University School of Medicine, 540 East Canfield, Detroit, MI 48201.

Wayne State University is an equal opportunity/affirmative action employer. People working together to provide quality service. All buildings, structures and vehicles at WSU are smoke-free.

3-Dimensional Pharmaceuticals, Inc., a company integrating cutting edge technologies in Structure-based Drug Design, Combinatorial Chemistry and Chem-Informatics to discover breakthrough pharmaceuticals, seeks individuals with outstanding qualifications in the following areas:

- **ENZYMOLGY** – Positions are available to develop enzyme and receptor binding assays, perform kinetic characterizations, determine enzyme and inhibitor mechanisms and support protein production. Ph.D. level and BS/MS level candidates with 2+ years of experience will be considered. Experience in laboratory automation, high throughput assay development or analytical biochemistry is particularly desirable.
- **MOLECULAR BIOLOGY** – Several positions are available for BS/MS candidates with one or more years of experience to clone and express novel engineered proteins. Particular consideration will be given to individuals with backgrounds in heterologous expression in *E. coli*, yeast or insect cells or with broad experience in PCR mutagenesis.

3DP is located in Exton, Pennsylvania, and offers a comprehensive compensation and benefits package. Qualified individuals are invited to send a resume with contact data for three references to: **3-Dimensional Pharmaceuticals, Inc., Eagleview Corporate Center, 665 Stockton Drive, Suite 104, Exton, PA 19341.**



3-Dimensional Pharmaceuticals, Inc.

AN EQUAL OPPORTUNITY EMPLOYER

POSTDOCTORAL FELLOWSHIPS at the WOODS HOLE OCEANOGRAPHIC INSTITUTION

Applied Ocean Physics & Engineering
Biology, Marine Chemistry & Geochemistry
Marine Geology & Geophysics
Physical Oceanography

Applications are invited from new or recent doctorates in the fields of biology, molecular biology, microbiology, chemistry, engineering, geology, geophysics, mathematics, meteorology and physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

Fellowships are awarded for 12-18 month appointments with a stipend of \$36,000 per year, plus group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interest in association with resident staff. Completed applications must be received by **January 16, 1996** for the 1996-97 awards. Awards will be announced in March. Write for application forms to: **Dean of Graduate Studies, MS #31, P.O. Box 5, Woods Hole Oceanographic Institution, Woods Hole, MA 02543-1541.** Or call (508) 457-2000, ext. 2200 or Email lcampbell@whoi.edu.

**WOODS HOLE
OCEANOGRAPHIC
INSTITUTION**



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POSITIONS OPEN

ASSISTANT PROFESSORS

The Department of Zoology and Physiology at Louisiana State University anticipates two tenure-track **ASSISTANT PROFESSOR** positions. "Pending Final Approval." The openings, starting August, 1996, are in any area of (1) Vertebrate Physiology, but with special consideration given to those who work in the areas of endocrinology or neurobiology using non-mammalian models, and (2) Cell Biology, but with special consideration given to those who use molecular techniques in conjunction with other approaches to study cytoskeletal regulation/molecular motors, signaling events or trafficking, protein targeting/modification. Ph.D. or equivalent degree in a biological science and postdoctoral experience required. Successful applicants are expected to develop a strong, independent research program with extramural support and have a commitment to excellence in undergraduate and graduate instruction. Candidates should submit a statement of research interests and teaching philosophy, curriculum vitae, and the names of three references by December 5, 1995, or until the position is filled, to: **Chairman, Department of Zoology and Physiology, Louisiana State University, Baton Rouge, LA 70803-1725. LSU is an Equal Employment Opportunity/Affirmative Action Employer.**

American University in Cairo (AUC). Applications are invited for one faculty opening at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level for a biologist to teach, in English, General Biology and a section of the core curriculum's required course in Scientific Thinking. Preference will be given to specialists in environmental biology and/or botany. Ph.D. required. AUC particularly seeks applicants with a demonstrated record or strong promise of excellence in teaching. Scholarly/research experience or potential is expected. Normal teaching load is nine hours per semester. Two-year appointment (renewable) begins September 1996. Rank, salary according to qualifications and experience. For expatriates, housing, roundtrip air travel, plus schooling for up to two children included. Write with curriculum vitae to: **Dr. Andrew Kerek, Provost, The American University in Cairo, 866 United Nations Plaza, Suite S-517, New York, NY 10017, preferably before November 30, 1995. AUC is an Equal Opportunity Employer.**

ASSISTANT PROFESSOR MOLECULAR BIOLOGY

The Department of Physiology in the School of Medicine, Southern Illinois University of Carbondale, anticipates, contingent upon availability of funds, a fiscal year, tenure-track faculty position in the general area of eukaryotic molecular biology starting August 16, 1996. This is a 12-month appointment with a competitive salary, excellent facilities, and substantial start-up funds. An earned doctorate degree is required, and postdoctoral experience indicating potential to conduct externally funded, independent research is preferred. The Department has an established graduate program, and active research interests in the areas of reproductive biology, neurobiology, and cell signaling. Applicants must be willing to participate in the teaching activities of the Department, which may include respiratory physiology to medical students, and training of undergraduate and graduate students in physiology. Additional departmental information can be obtained via the WWW address: <http://www.som.siu.edu>.

Deadline for applications is January 15, 1996, or until the position is filled. Applicants should send a cover letter including a brief statement of research and teaching interests, curriculum vitae, selected reprints, and three letters of reference to:

Dr. Andrzej Bartke
Molecular Biology Search Committee
Department of Physiology, School of Medicine
Southern Illinois University at Carbondale
Carbondale, IL 62901-6512

Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study recombination and regulation of gene expression in EBV-transformed mammalian B cells. Please send curriculum vitae, statement of research accomplishments and interests, and names of three references to: **Dr. Nancy Maizels, Department of Molecular Biophysics and Biochemistry, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520-8024.**

POSITIONS OPEN

UNIVERSITY OF TOLEDO

Tenure-Track Assistant Professorships in Biology

The Department of Biology at the University of Toledo has potential openings for two tenure-track **ASSISTANT PROFESSORSHIPS** beginning in the fall of 1996. The Department offers B.A., B.S., M.S., and Ph.D. degrees. A new life sciences research complex, plant sciences facility, and Lake Erie Research Center are under construction. Successful candidates will be expected to participate in both undergraduate and graduate instruction as well as develop an externally funded research program that complements existing departmental strengths. A Ph.D. and relevant postdoctoral experience are expected. Salary and set-up are competitive. Applications filed by November 30, 1995 will receive priority.

Position I will be filled with an Ecologist/Environmental Biologist. Candidates are sought whose research interests focus on the plant-soil interface, below ground terrestrial processes, or ecological modeling. Position II will be filled with a Cell/Molecular Biologist. Particular interest will be given to candidates who apply modern molecular techniques to the study of developmental systems. Interested candidates should send a letter of application, curriculum vitae, statement of teaching and research interests, and the names and addresses of at least three references to:

Chair, Search Committee
Department of Biology
University of Toledo
Toledo, OH 43606-3390

The University of Toledo is an Affirmative Action/Equal Opportunity Employer. Women and members of other under-represented groups are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR Division of Rheumatology and Clinical Immunology

The Department of Medicine, University of Pittsburgh School of Medicine, invites applications for three tenure-track positions at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Candidates must have an M.D., M.D./Ph.D., or Ph.D., postdoctoral research experience, and a well-developed plan for an independent basic or clinical research program. Applications are invited from individuals with training in the areas of molecular immunology, immunogenetics or related basic sciences with a strong interest in the basic mechanisms of autoimmunity and from individuals with training in clinical epidemiology or health services research. Applicants should submit curriculum vitae, a statement of research interests and plans, selected reprints, and a list of three references to: **Timothy M. Wright, M.D., Chief, Division of Rheumatology and Clinical Immunology, University of Pittsburgh School of Medicine, Suite 502, Kaufmann Building, Pittsburgh, PA 15213. Telephone: 412-692-4343. University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.**

MOLECULAR-CELLULAR BIOLOGIST

A **POSTDOCTORAL POSITION** to study cis- and trans-acting mechanisms and the role of DNA conformation in transcriptional regulation of growth factor (bFGF) and neurotransmitter (tyrosine hydroxylase) genes in adrenal medullary cells. Requires experience in DNA construction, mutagenesis, and DNA-protein binding assays. Send curriculum vitae, a summary of research experience, and references to: **Dr. Michal K. Stachowiak, Laboratory of Molecular Neurobiology, Barrow Neurological Institute, Mercy Health Care Arizona, 350 West Thomas Road, Phoenix, AZ 85013. Equal Opportunity Employer.**

PREDOCTORAL TRAINEESHIPS

The University of Montana's Organismal Biology and Ecology Graduate Program (OBE) has five **PREDOCTORAL TRAINEESHIPS** in Conservation and Environmental Biology for fall 1996 through the NSF-funded Training-WEB Project. Stipends are \$14,100, plus tuition. *Trainees must be US citizens or permanent residents and be admitted to the OBE Program.* Contact: **The Training-WEB Secretary, Division of Biological Sciences, The University of Montana, Missoula, MT 59812. Telephone: 406-243-5222; Email: jmclark@selway.umd.edu. Women and members of minority groups are encouraged to apply. Equal Employer Opportunity/Affirmative Action.**

POSITIONS OPEN

CHAIRPERSON, Department of Cell Biology, Neurobiology and Anatomy. The University of Cincinnati College of Medicine invites applications and nominations for the Francis Brunning Endowed Professorship and Department Chair. The department is composed of 22 full-time faculty with significant extramural grant support; has a long history of excellence in basic science research/medical education; and houses two large interdisciplinary graduate programs: cell biology and neuroscience.

We seek an individual with an internationally recognized research program, demonstrated leadership, and a strong commitment to biomedical education. Outstanding individuals with established and well-funded research in cellular neuroscience or cell biology are encouraged to apply. Nominations/inquiries/applications (include curriculum vitae and three references) to: **John C. Winkelmann, M.D., Search Committee Chair, University of Cincinnati Medical Center, Department of Internal Medicine, Cincinnati, OH 45267-0508. Telephone: 513-558-2195. Email: John.Winkelmann@UC.EDU or FAX: 513-558-6703. Affirmative Action/Equal Opportunity Employer. Women, Minorities, Disabled, Veterans encouraged to apply.**

ASSISTANT PROFESSOR BIOCHEMISTRY Oregon State University

The Department of Biochemistry and Biophysics announces a full-time, **TENURE-TRACK** position (nine-month). Qualifications include: outstanding quality of research as demonstrated by postgraduate and postdoctoral research productivity; desire to teach general biochemistry and related subjects. The appointee is expected to develop an active, extramurally supported research program. Research area open, but must be a biochemical area that complements and extends existing faculty interests. To apply, send a letter of interest; a curriculum vitae; a concise statement of research plans; two papers; names and addresses of three professional references; and have the three reference letters sent to: **Philip N. McFadden, Biochemistry and Biophysics, 2011 ALS, Oregon State University, Corvallis, OR 97331-7305.** Completed applications received by November 21, 1995 will be assured of consideration. *Oregon State University is an Affirmative Action/Equal Opportunity Employer, and is responsive to dual-career couples.*

DUKE UNIVERSITY DEVELOPMENTAL BIOLOGIST Developmental, Cell, and Molecular Biology (DCMB) Group

We invite applications for a tenure-track position at the **ASSISTANT PROFESSOR** level from candidates investigating mechanisms of development in higher eukaryotes. The DCMB Group is a consortium of faculty with common interests in the Departments of Botany and Zoology. The appointment will be in the Department of Zoology. Please submit a curriculum vitae, names and addresses of three referees, description of current and future research interests, and a statement of teaching experience and interests to: **David R. McClay, Department of Zoology, Box 90325, Duke University, Durham, NC 27708-0325.** The committee will begin considering applications on November 15, 1995.

Duke University is an Affirmative Action/Equal Opportunity Employer.

LOUISIANA STATE UNIVERSITY Department of Biochemistry Postdoctoral Researcher

The Department of Biochemistry at Louisiana State University seeks applicants for the position of **POSTDOCTORAL RESEARCH ASSOCIATE** to conduct research in eicosanoic acid synthesis in plants. Candidates must have a Ph.D. in Biochemistry or a related field. Experience in purification of enzymes and in DNA cloning and gene expression is required. Preference will be given to applicants with knowledge in fatty acids synthesis. Research will be conducted at the USDA's Southern Research Center in New Orleans, Louisiana. Send curriculum vitae, academic transcripts, and three letters of recommendation to:

Dr. Ding S. Shih
Postdoc Search
Room 322 Choppin Hall
Louisiana State University
Baton Rouge, LA 70803
Telephone: 504-388-5146; FAX: 504-388-5321
Application deadline: October 30, 1995

An Affirmative Action/Equal Opportunity Employer.

University of California Santa Cruz
BEHAVIORAL ECOLOGY
Assistant Professor

The Biology Department at the University of California, Santa Cruz, invites applications for a tenure-track assistant professor position in Behavioral Ecology. We seek a biologist who will apply modern experimental approaches in behavioral ecology. We especially encourage applicants whose research emphasizes evolutionary processes, the interface between behavior and physiology and who can take advantage of the extraordinary terrestrial and/or marine environments of Central California. The successful candidate will be expected to establish an active, externally funded research program, and participate in graduate and undergraduate training in the areas of behavioral ecology, ecology and evolution. UCSC has a strong tradition of field research and teaching in behavioral ecology; the appointee will be expected to maintain and expand that tradition. UCSC is committed to the development of strong programs in ecology, physiology, and evolution. Besides the Biology Department, colleagues can be found in allied programs in Marine Sciences, Environmental Studies, the Institute of Marine Sciences and the Predatory Bird Group.

RANK: Assistant Professor

MINIMUM QUALIFICATIONS: Ph.D. or equivalent in Biology or a related field, achievements in or demonstrated potential for university research and teaching.

POSITION AVAILABLE: Fall 1996, subject to final administrative and budgetary approval.

APPLY TO: Applicants should submit a curriculum vitae, a brief description of research and teaching interests, copies of reprints, and arrange for three letters of recommendation to be sent to:

Behavioral Ecology Search Committee
Department of Biology
225 Sinsheimer Laboratories
University Of California
Santa Cruz, CA 95064

Please refer to provision #503 in your reply.
CLOSING DATE: December 1, 1995



**Associated
Western
Universities
Incorporated**

PROGRAM MANAGER
Salt Lake City, Utah

Associated Western Universities, Inc. (AWU), a non-profit corporation with 62 member colleges and universities, invites nominations and applications for the position of Program Manager for its Salt Lake City headquarters office. Since 1959, AWU has worked in partnership with government and industry to develop an integrated spectrum of science and engineering education programs which sponsor the participation of faculty and students in research at federal, industrial, and academic laboratories. In 1995, with sponsorship of \$2.4M, these programs supported more than 3,600 faculty and students from 1,200 high schools, colleges, and universities throughout the U.S. Many of these academic scientists participated in research at one of more than 59 federally and industrially-funded facilities.

Responsibilities: Manage post secondary science education programs; establish and cultivate AWU partnerships; conceive, develop, evaluate and analyze programs; and participate actively as a member of the AWU team. This includes obtaining external sponsorships, establishing and maintaining effective communications with program partners; and sustaining a corporate culture of commitment and effectiveness.

Qualifications: Bachelor's degree (advanced degree preferred) with a strong background in science or engineering; excellent communication, interpersonal, organizational skills; experience in the management of complex projects or programs. A working knowledge of higher education, federal laboratories, industry and/or sponsored programs is important. Academic teaching, research and/or R/D management experience is a plus.

Salary: Commensurate with qualifications and experience; excellent benefits.

Send letter of application, resume, salary requirement, and names, addresses and telephone numbers of three references to: Dr. F. Dee Stevenson, Vice President for Programs, Associated Western Universities, Inc., 4190 S. Highland Drive, Suite 211, Salt Lake City, UT 84124. To ensure consideration, applications should be received by November 15, 1995.



Washington
WASHINGTON UNIVERSITY • IN • ST. LOUIS

Department of Genetics

The Department of Genetics plans to hire several new faculty members. Applications for junior level, tenure track faculty positions are invited. Current interests of department include:

- 1) model systems
- 2) mammalian genetics
- 3) computational biology
- 4) quantitative genetics

Responsibilities include establishment of a strong and interactive research program and a commitment to graduate and/or medical student education.

Applicants should send a curriculum vitae and a statement of current and future research plans and arrange for the submission of three letters of reference by November 15 to:

Robert Waterston, M.D., Ph.D.
Search Committee
Department of Genetics
Box 8232

Washington University School of Medicine
4566 Scott Avenue
St. Louis, MO 63110

MICROBIAL BIOCHEMISTRY

Postdoctoral Scientist

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has a challenging opportunity for a postdoctoral scientist to join the Molecular Microbiology Department within Microbiology Research. The appointee will join a newly formed research team which seeks to exploit novel bacterial gene products as drug targets.

This NIH funded position forms part of an international academic-industrial collaboration, created specifically to expand research into the biosynthesis, structure and function of selected components of the cell walls of mycobacteria. You will be involved in the culturing of *Mycobacterium tuberculosis*, in addition to other mycobacteria, and the isolation, purification and characterization of various cell envelope lipids, polysaccharides, peptides and biosynthetic enzymes with a view to developing novel antimycobacterial drugs.

Candidates should have a recent Ph.D. in Microbiology, Biochemistry or a related discipline. Experience in the purification and analysis of complex microbial products is preferred and applicants should possess good communication skills and a desire to work within a multidisciplinary team.

Our newly acquired, state-of-the-art research facility is located at Upper Providence, in suburban Philadelphia. We offer a competitive compensation/benefits/relocation package and a stimulating team environment. Interested applicants should send their resume to: SmithKline Beecham Pharmaceuticals, Job Code MR001, P.O. Box 2645, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.



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POSITIONS OPEN

IMMUNOLOGIST/MOLECULAR BIOLOGIST

Corixa Corporation is a new biotechnology company dedicated to the development of T cell vaccines and therapies for cancer and infectious diseases. Corixa is seeking Ph.D. **SCIENTISTS** in Immunology and Molecular Biology. Candidates should have two to three years of postdoctoral experience in molecular/cellular immunology pertinent to defining immunogenic human CTL epitopes or gene cloning. Successful candidates will share responsibility with other company scientists to discover T cell based vaccine candidates in the setting of oncology and infectious disease. Emphasis is on the use of recombinant DNA technology to modify human APC functions and the production of CTL, including discovery of antigen targets. Competitive salary and benefits, including equity options. Please send curriculum vitae, statement of research interests, and names of three references to: **Corixa Corporation, 1124 Columbia, Suite 464, Seattle, WA 98104. FAX: 206-667-5715. An Equal Opportunity Employer.**

RESEARCH POSITION

BIOLOGICAL SCIENCE/ENGINEERING Ph.D. Practical, applications-oriented, versatile, creative, self-directed, publications, excellent writer, strong microbiology and chemistry. All phases contract R&D from proposal writing to development of product. Independent and team work. Send résumé, publication list, salary requirement and names of three references to: **Human Resources, SymBioTech, Inc., 8 Fairfield Boulevard. Wallingford, CT 06490.**

SMITHSONIAN INSTITUTION FELLOWSHIP PROGRAM

GRADUATE STUDENT, POSTDOCTORAL, AND SENIOR FELLOWSHIPS in animal behavior, ecology, and environmental science, including an emphasis on the tropics; earth sciences and paleobiology; evolutionary and systematic biology; history of science and technology. Tenable in residence at the Smithsonian facilities. Stipends and tenure vary. Deadline: January 15 annually. Contact: **Office of Fellowships and Grants, 955 L'Enfant Plaza, Suite 7000, Desk S, Washington, DC 20560. Telephone: 202-287-3271. An Equal Opportunity Employer.**

CELLULAR AND MOLECULAR ENDOCRINOLOGY

A POSTDOCTORAL FELLOWSHIP and a RESEARCH ASSISTANT PROFESSORSHIP are available to study the mechanisms governing pituitary hormone secretion as they relate to the differentiation and transdifferentiation of growth hormone and prolactin producing cells. Both rodent and bovine model systems are utilized. We currently study these processes at the single, living cell level by employing a broad spectrum of molecular and cellular strategies that include (but are not limited to) combinations of the following techniques: reverse hemolytic plaque assays for quantifying hormone secretion, video imaging of cells transfected with luciferase-promoter constructs for assessing gene expression in real time, and microinjection (cytoplasmic and nuclear) for selectively introducing modulators of gene expression and hormone secretion. Postdoctoral experience and an extensive background in molecular biology are required for the more senior position. Salary and benefits are highly competitive and commensurate with experience. Send curriculum vitae and names and telephone numbers of three references to: **Dr. L. Stephen Frawley, Department of Cell Biology and Anatomy, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2204. Telephone: 803-792-3526. FAX: 803-792-0664. Women and minorities are encouraged to apply. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION (Ph.D. or M.D.) is immediately available to map and clone tumor suppressor gene(s) involved in brain tumors. Experience in molecular biology techniques is required. Salary and conditions are in accordance with national standards. Related work: *Nature Med.*, 1:686, 1995/*Cancer Res.*, 54:640, 1994; 54:2322, 1994; 54:2098, 1994; 55:2995, 1995. Please FAX curriculum vitae to: **Adrian Merlo and Rodney Scott, Brain Tumor Research/Cancer Genetics, Department of Research, University of Basel, CH-4031 Basel, Switzerland. FAX: +41-61-265-7138 or Email: Scott@ubaclu.unibas.ch.**

POSITIONS OPEN

DIRECTOR, Cytogenetics Laboratory: The Division of Human Genetics of the Children's Hospital Research Foundation (CHRF) seeks a ABMG Clinical Cytogenetics certified or eligible M.D. or Ph.D. to direct its service and research activities. Responsibilities include amniotic cells, CVS, blood and tumor karyotype and FISH analyses, and development of research program. Academic rank determined by qualifications. Send curriculum vitae, bibliography and three letters of recommendation to: **Gregory A. Grabowski, M.D., Director, Division of Human Genetics, CHRF, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.**

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available immediately for a recent Ph.D. or M.D. who is interested in cell-cycle control, signal transduction and their relation to ionizing radiation and DNA damage. Strong molecular biology background with experience in yeast, biochemistry and/or cell biology are desired. Clinical Fellows interested in pursuing a career in biomedical research are encouraged to apply. Send curriculum vitae, career interest and letters of recommendation to: **Dr. Tim J. Yen, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.**

HARVARD MEDICAL SCHOOL HUMAN GENE THERAPY

Two **POSTDOCTORAL POSITIONS** to develop anti-tumor chimeric IgTCR-modified T cells for therapy. 1) Excellent molecular biology skills and/or retroviral vector experience. 2) Expertise in immunology and (optimally) mouse models; medical, veterinary or pathology background a plus. Send résumé, description of prior research, and names of at least two references by FAX: **617-632-0998 to: R. P. Junghans, Ph.D., M.D., Director, Biotherapeutics Development Lab.**

Outstanding **POSTDOCTORAL** opportunity to investigate the molecular mysteries of voltage-gated ion channels. Requires Ph.D. or M.D. and experience with molecular biological or electrophysiological techniques. Excellent research and living environment. Applicants should send curriculum vitae, description of previous research experiences, and names of three references to: **Dr. Brett Adams, Department of Physiology and Biophysics, The University of Iowa, Iowa City, IA 52242-1109. FAX: 319-335-7330; Email: Brett-Adams@uiowa.edu. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and Minorities are strongly encouraged to apply.**

POSTDOCTORAL POSITION available immediately to work in NIH-funded project on cloning and expression of *hem* genes. Requires a relatively recent Ph.D. with two years of molecular biological experience. Background in genetics and/or heme-biochemistry preferred. Interested individuals should submit a résumé, publications, certified transcripts and licenses, and have at least two letters of recommendation sent to: **Dr. Debabrata Majumdar, Department of Biology, Norfolk State University, Norfolk, VA 23504, U.S.A. Telephone: 804-683-2543, FAX: 804-683-8817.**

POSTDOCTORAL POSITIONS MOLECULAR BIOLOGY OF HIV

Positions are available immediately to study determinants of HIV infectivity and analyze HIV accessory gene product. A background in biochemistry and molecular biology is desirable. Send curriculum vitae and names of three references to: **Mario Stevenson, Ph.D., Program in Molecular Medicine, University of Massachusetts Medical Center, 373 Plantation Street, Worcester, MA 01605. An Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE position available in a program focused on immunology of human melanoma with emphasis on immunotherapy. Background in molecular immunology required to participate in a program to analyze HLA antigen expression by melanoma cells, to develop new types of immunogenes for immunotherapy and/or analyze patient's immune response. Send curriculum vitae, names of three references to: **Dr. S. Ferrone, Department of Microbiology and Immunology, New York Medical College, Valhalla, NY 10595.**

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Northwestern University

Department of Neurobiology
and Physiology

Two tenure-track faculty positions are available in the area of

Molecular and Cellular Neurobiology

The Department expects to hire one new faculty member with interests in the area of molecular or cellular neuroendocrinology or neuropharmacology. For the second position, candidates working in molecular or cellular neurobiology, including (but not restricted to) the areas of signal transduction, development, plasticity and learning, will be considered. These positions are expected to be filled at the junior level, but outstanding senior candidates will also be considered. Faculty are expected to maintain a strong independent research program, and to participate in graduate and undergraduate teaching. Northwestern University's main campus is located in an attractive setting along the shores of Lake Michigan. *Women and members of minority groups are especially encouraged to apply.* Northwestern University is an AA/EEO employer. Applicants should send a curriculum vitae and statement of research interests by December 1 and have at least three letters of reference sent to the address below. Applicants should specify for which position they are applying.

David Ferster, Ph.D., Jon Levine, Ph.D.
Search Committee
Department of Neurobiology and Physiology
Northwestern University
2153 North Campus Drive
Evanston, IL 60208

THE CENTER FOR ENVIRONMENTAL RESEARCH AND CONSERVATION COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

The Center for Environmental Research and Conservation (CERC)—a consortium of Columbia University, The American Museum of Natural History (AMNH), The New York Botanical Garden (NYBG), Wildlife Preservation Trust International, and The Wildlife Conservation Society—announces the establishment of the following four new faculty positions. CERC is a multidisciplinary center aimed at promoting education, training, and research in biodiversity conservation by integrating the knowledge and methods of both the biological and social sciences. Appointments will be joint with a relevant department at Columbia and will be five-year positions at the **ASSISTANT PROFESSOR** level. Each candidate is expected to teach at least one core course in the undergraduate (Environmental Biology) or graduate (Ecology and Evolutionary Biology) curriculum of CERC as well as seminars in his/her area of expertise as it relates to conservation and biodiversity studies. Each candidate is also expected to maintain a vigorous research program supported by extramural funding. A willingness to develop integrative and multidisciplinary research and teaching is essential. Opportunities for field research exist in CERC affiliate institutions in Asia, South America, Biosphere 2, and other locations worldwide. For terms beginning with the academic year 1996-97, applications are invited in the following fields:

Community Ecologist: A community ecologist is sought with research and teaching activities focused on nutrient cycling, plant/animal interactions, and/or restoration biology within terrestrial ecosystems. Ability to teach advanced ecology, community ecology, biometry, and related courses desirable. The candidate for this position will work in close collaboration with researchers at Columbia's Lamont-Doherty Earth Observatory and Biosphere 2.

Plant Systematist: A botanist/mycologist with a strong taxonomic publication record is sought to conduct research and teach plant and fungal systematics. Candidates should be familiar with higher level taxa systematics questions, a variety of phylogenetic methods, as well as holding expertise in a specialized group. This position will be affiliated with NYBG.

Animal Systematist: A zoologist with a strong taxonomic publication record is sought to conduct research and teach invertebrate and vertebrate systematics. Candidates should be familiar with higher level taxa systematics questions, a variety of phylogenetic methods, as well as holding expertise in a specialized group. This position will be affiliated with AMNH.

Population Biologist: A population biologist is sought to teach conservation biology, population biology, biometry, and related courses. Specialization in small metapopulation dynamics, demographic or genetic dynamics, and their policy implications would be particularly desired.

Applications, including a curriculum vitae, a statement of research and teaching interests, and three letters of recommendation, will be accepted until December 1, 1995, or until suitable candidates are found. Send to: Dr. Don J. Melnick, Director, Center for Environmental Research and Conservation, Columbia University, Low Library, 535 West 166th Street Room 405, New York, NY 10027. <http://www.columbia.edu/cu/cerc/>

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



FACULTY POSITION, U.C.L.A. PLANT MOLECULAR BIOLOGY

The newly formed Department of Molecular, Cell and Developmental Biology, would like to add to existing strength in Plant Molecular Biology by hiring two individuals with proven research and teaching accomplishment in the area of Plant Cell, Molecular or Developmental Biology. One appointment will be at a relatively junior level (starting Assistant through mid-Associate Professor level). The second appointment would be made in connection with our search for a Chair of the Department of Molecular, Cell and Developmental Biology. Successful candidates' research programs will be expected to use molecular and genetic techniques to address questions of fundamental importance for plant cell and developmental biology. The candidates will participate in teaching undergraduates in an integrated life sciences curriculum at both the lower and upper division levels. Applicants should send their c.v., a concise research statement indicating future plans as well as the current program, and a brief statement of teaching interests and experience to: Plant Molecular Biology Search Committee the Department of Molecular, Cell and Developmental Biology, Box 951606, U.C.L.A., Los Angeles, CA 90095-1606. Candidates for a junior position should have three letters of recommendation sent to the same address. Candidates for the senior position should include names of three potential references. The committee will start considering candidates by October 20, 1995. U.C.L.A. is an affirmative action/equal opportunity employer. *Women, minorities, and persons with disabilities are encouraged to apply.*

Junior and Senior Faculty Positions in Biochemistry

THE DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY of the University of Maryland at College Park seeks to fill two positions, one at the Assistant Professor (Tenure Track) level, and one at a Senior level. The Senior position will be in the Division of Biochemistry, which is in the process of growing substantially from its current faculty; most of whom are young with active programs in enzymology, DNA recombination, catalytic RNA, antimicrobial peptides, DNA-protein interactions, atomic force microscopy, and membrane function. Candidates should be in an area that broadens this range of programs, and have an exceptional record of research accomplishment as well as being at a stage of expanding productivity. Although a senior candidate is preferred, junior candidates will also be considered.

The Asst. Prof. position will be joint with the CENTER FOR AGRICULTURAL BIOTECHNOLOGY (CAB), with laboratory space, tenure, and teaching duties in Biochemistry. CAB is a component of the U of MD Biotechnology Institute and is a multidisciplinary research center emphasizing plant-microbe interactions, insect molecular genetics, vaccine development, protein modification, and biochemical engineering. It will soon occupy a newly constructed and equipped research building on the U of MD College Park campus. Candidates for this joint position should be in an area that is clearly compatible with contemporary biotechnology, with interests in protein structure and/or function being particularly desirable. They must also demonstrate exceptional promise of being able to establish and maintain a funded research program. Candidates for both positions should expect to attract graduate students from the Molecular and Cellular Biology program as well as the Biochemistry program. To apply, send resume (including a description of research plans) and arrange for 3 letters of reference to be sent to: Prof. J. Norman Hansen, Chair, Biochemistry Search Committee, Dept. Chem & Biochem, UMCP, College Park, MD 20742. For best consideration, application should be complete by December 1, 1995. *The University of Maryland at College Park is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

FACULTY POSITION IN MOLECULAR & CELL BIOLOGY

The Center for Advanced Biotechnology and Medicine (CABM) and the Department of Pharmacology at UMDNJ-Robert Wood Johnson Medical School are seeking applicants for a tenure-track faculty position. Applicants should have a strong record of publication in molecular and cell biology. The successful candidate will occupy new laboratory space in the CABM building and join a growing, interactive, and highly productive life-sciences community on the Busch Campus, where there are many opportunities for research collaboration and participation in several graduate programs. The position is highly competitive with regard to start-up funds, laboratory space, salary and benefits. Please send a CV, publications, and a summary of research activities and plans, along with names and addresses of 3 references to: Drs. Aaron J. Shatkin and Leroy F. Liu, 679 Hoes Lane, Piscataway, NJ 08854-5638. UMDNJ-Robert Wood Johnson Medical School is an Affirmative Action/Equal Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey.



POSITIONS OPEN

UNIVERSITY OF MICHIGAN

A **POSTDOCTORAL POSITION** is available immediately in an exciting research environment to investigate signal transduction in the context of autoimmunity. Experience in cellular and molecular immunology is required.

Send curriculum vitae and names of three references to: **Dr. Joseph Holoshitz, Director, University of Michigan Specialized Center of Research in Rheumatoid Arthritis, 200 Zina Pitcher Place, Kresge I R4550, Ann Arbor, MI 48109-0531. FAX: 313-763-8974; Email: jholo@umich.edu.**

POSTDOCTORAL POSITION immediately available to study the Physical Biochemistry of protein nucleic acid interactions, helicases, and SSB proteins. Experience in fluorescence spectroscopy preferred. Send current curriculum vitae and three reference letters to: **Dr. W. M. Bujalowski, Department of Human Biological Chemistry & Genetics, The University of Texas Medical Branch at Galveston, Galveston, TX 77555-1053. Equal Opportunity Employer/Minorities/Female/Disabled/Veteran. UTMB hires only individuals authorized to work in the U.S.**

DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF UTAH

A **POSTDOCTORAL FELLOWSHIP** is available to participate in structural studies of the interaction of histone H1 with chromatin. The ideal candidate will be one who has a strong background in biochemistry or molecular biology, but who is also open to learning physical techniques including x-ray crystallography. The various departments involved in the life sciences provide a thriving scientific environment with good opportunities for interactions. Salt Lake City is a cosmopolitan city surrounded by beautiful areas for outdoor activities. Please contact: **V. Ramakrishnan, Department of Biochemistry, University of Utah School of Medicine, 50 North Medical Drive, Salt Lake City, UT 84132. Telephone: 801-585-6001. Email: V.Ramakrishnan@m.cc.utah.edu. The University of Utah is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION in cellular/molecular neurobiology available for individual interested in using state of the art electrophysiological and molecular biological techniques to study the roles of excitatory amino acids and second messenger/protein kinase systems in modulation of synaptic transmission and neuronal function in mammalian brain. A strong background in cellular and/or molecular neurobiology is preferred. Send curriculum vitae, three references, and statement of research interests to: **Dr. P. Jeffrey Conn, Department of Pharmacology, Emory University School of Medicine, Atlanta, GA 30322. Emory University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION in neuropharmacology available immediately to study the role of nitric oxide in neuroinflammatory diseases. A background in biochemical, cellular or molecular pharmacology is preferred. Salary and benefits commensurate with NIH guidelines. Send letter, curriculum vitae, and names of three references to: **Dr. K. M. K. Boje, Department of Pharmaceutics, H517 Cooke, School of Pharmacy, University of Buffalo, Buffalo, NY 14260. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study *Pneumocystis carinii* lipid biochemistry and metabolism. Biochemistry, parasitology or microbiology, and lab animal experience desired. Please send curriculum vitae, and the names and telephone numbers of three references to: **Dr. Edna S. Kaneshiro, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221. FAX 513-556-5280. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS, Harvard Medical School: Fully funded positions are currently available in two project areas: to study the regulation, role, and function of new tyrosine kinase and phosphatase genes in hematopoiesis; and human retrovirology with particular focus on gene therapy for HIV. Ph.D. and/or M.D. with a background in cell biology/hematopoiesis/molecular biology/virology preferred. Please submit curriculum vitae and three references to: **Jerome E. Groopman, M.D., Division of Hematology/Oncology, Harvard Medical School, New England Deaconess Hospital, One Deaconess Road, Boston, MA 02215. FAX: 617-424-6237.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS Transcription Initiation and Activation

Available immediately to study prokaryotic transcription (*E. coli* RNA polymerase and activators) or eukaryotic transcription (yeast and human RNA polymerase II; human general transcription factors). Prior experience in transcription desirable. Prior experience in at least two of the following required: site-directed mutagenesis, protein purification, protein chemistry, analysis of protein-nucleic acid interaction, and analysis of protein-protein interaction. Send curriculum vitae, summary of research experience, and names and addresses of three references to: **Richard H. Ebright, Waksman Institute, Rutgers University, New Brunswick, NJ 08855. FAX: 908-445-5735.**

TWO POSTDOCTORAL RESEARCH FELLOWSHIPS

MOLECULAR BIOLOGIST—the research will focus on the molecular biology of Alzheimer's disease and other disorders related to aging. Work will involve genetic studies of Alzheimer's disease, gene cloning, gene expression, functional studies, and transgenic mouse technology. Applicants should have a strong background in molecular biology, biochemistry, or molecular genetics. Interested individuals should send curriculum vitae and three letters of recommendation to: **Gerard D. Schellenberg, Geriatric Research Education and Clinical Center, Seattle Veterans Affairs Medical Center, 1660 South Columbian Way, Seattle, WA 98108. Affirmative Action, Equal Opportunity Employer.**

POSTDOCTORAL POSITION to study role of the winged helix transcription factors (hepatocyte nuclear factor 3 and homologs) in cell-specific gene expression via transgenic mouse models and examine their embryonic expression patterns (see *Dev. Biol.* 166:195, 1994; *Mol. Cell. Biol.* 15:1364, 1995; *Cell Growth & Differ.* 6:879, 1995). Preference will be given to applicants with knowledge of developmental biology and use of transgenic mouse technology. Please send curriculum vitae, names and telephone numbers of three references to: **Dr. Robert Costa, University of Illinois at Chicago, College of Medicine, Department of Biochemistry (M/C 536), 1819 West Polk Street, Chicago, IL 60612-7334. FAX: 312-413-0364. University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.**

COLLEGE OF AGRICULTURAL SCIENCES PENN STATE

One-year **POSTDOCTORAL POSITION** available immediately to produce and characterize transgenic potato plants containing the antisense construct for an O_3 -induced ACC synthase gene identified in our laboratory. Experience in plant transformation and regeneration is required. Send résumé and the names of three references to: **Dr. Eve J. Pell, Penn State University, Department of Plant Pathology, 210 Buckhout Laboratory, University Park, PA 16802; FAX: 814-863-7217 or Email: EJP@PSU.EDU. An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.**

POSTDOCTORAL POSITIONS

Immediate openings are available to conduct basic studies on the molecular mechanisms and organelle-specific signals in the regulation of terpenoid and sterol production in animals. The candidates, with Ph.D. or M.D. degrees, should have strong background in molecular/cell biology as well as biochemistry. Send curriculum vitae and names of three references to: **Dr. Ishaiahu Shechter, Uniformed Services University of the Health Sciences (USUHS), Department of Biochemistry, 4301 Jones Bridge Road, Bethesda, MD 20814-4799. Telephone: 301-295-3550. Equal Opportunity Employer/Affirmative Action. Application deadline 30 November 1995.**

POSTDOCTORAL POSITION available to study human cytomegalovirus glycoproteins that function in tissue tropism and pathogenesis in polarized epithelial cells and neurons. Previous research experience in molecular and cellular biology desirable. Interested candidates should submit curriculum vitae and names of three references to: **Dr. Lenore Pereira, University of California San Francisco, HSW-604, San Francisco, CA 94143-0512. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS ARKANSAS CANCER RESEARCH CENTER

POSTDOCTORAL POSITIONS are available as part of a multidisciplinary program in B cell neoplasia at the University of Arkansas for Medical Sciences. Specific areas include identification of genes associated with cell-mediated cytotoxicity for gene and immunotherapy, and regulation of tumor growth and apoptosis by cytokines and oncogenes. Ph.D.s and/or M.D.s with experience in molecular biology, cell biology and/or immunology are encouraged to apply. Send curriculum vitae and names of three references to: **Dr. Jack Kornbluth, Division of Hematology/Oncology, University of Arkansas for Medical Sciences, 4301 West Markham-Slot 508, Little Rock, AR 72205. FAX: 501-686-8165; Email: jkornbluth@acrc.uams.edu. Affirmative Action/Equal Opportunity Employer.**

SENIOR LABORATORY TECHNICIAN

The Department of Biochemistry at the Uniformed Services University of the Health Sciences (USUHS) is seeking to hire a Biological Science Laboratory Technician (Biochemistry). The duties as Senior Laboratory Supervisor will be to perform research in the field of lipid metabolism and atherosclerosis; help in training students, technicians and other staff; and maintain laboratory equipment and inventory. The candidate, with an academic degree in Biological Sciences (preferably Molecular and/or Cell Biology), needs good oral and written communications skills, knowledge of a variety of biochemical and molecular biology laboratory techniques, knowledge of procedures for handling radioactive and biohazardous materials, and ability to plan and execute experimental protocols. Salary range thirties to mid forties. Excellent benefits. Send curriculum vitae, (Preferred) or Optional Form 612, or Standard Form 171, along with the names of three references to: **Dr. Ishaiahu Shechter, Uniformed Services University of the Health Sciences (USUHS), Department of Biochemistry, (95-128) 4301 Jones Bridge Road, Bethesda, MD 20814-4799. Telephone: 301-295-3550. Equal Opportunity Employer/Affirmative Action. Applications must be postmarked by 30 November 1995. U.S. citizenship required.**

FUNDS DEVELOPMENT OFFICER

The Uniformed Services University of the Health Sciences (USUHS) is seeking to hire a **FUNDS DEVELOPMENT OFFICER**. The candidate will head an office of information resources for both extramural and intramural research funding. Candidates are required to have knowledge of grants and funding processes and medical/scientific terminology. Incumbent should have proficient oral and written communication skills as well as presentation ability. Salary range low forties to mid fifties. Excellent fringe benefits. Applicants must request a copy of job announcement (95-129). **Telephone: 301-295-3550. Application deadline 30 November 1995. Equal Opportunity Employer/Affirmative Action. U.S. citizenship required.**

RESEARCH ASSOCIATE. Research in the identification of insulin-sensitive genes in newborn mammals. Must use euglycemic hyper-insulinemic clamp model to investigate insulin-sensitive genes. Must be familiar with arterial catheterization and physiologic adjustment of blood glucose levels of newborn mammals during hypoglycemia. Prepare tissues for extraction of metabolites, enzymes and messenger RNA. Screen genomic libraries to identify species specific insulin responsible genes and perform Northern blots. Direct neonatology metabolic laboratory—responsible for day-to-day and long-term planning of all research projects, supervise newborn animal research, radiation experiments, micro-method assays and molecular biology experiments. Ph.D. in natural science required and two years of experience in molecular biology with a focus in insulin resistance/sensitivity. Research/experience must include euglycemic hyper-insulinemic clamp model, catheterization and physiologic adjustment of blood glucose levels, extraction of metabolites, enzymes and messenger RNA, screening of genomic libraries, Northern blots. \$47,500 per year, 40 plus hours per week. *Applicants must have unrestricted authority to work for any U.S. employer.* Send two copies of résumé and evidence of research experience, citing Number 940171 to: **Travis Bartel, Alien Labor Unit, 201 East Washington Avenue, Madison, WI 53702.**



DEAN - SCHOOL OF VETERINARY MEDICINE

University of California, Davis

The University of California, Davis, invites applications and nominations for the position of Dean of the School of Veterinary Medicine and Director of the Division of Agriculture and Natural Resources Programs (Veterinary Medicine).

The Dean is the chief academic and administrative officer of the School responsible for leadership of the School in the areas of teaching, research, and professional service; developing and managing resources; representing the School to the campus and University administration; and interacting with the veterinary community and governmental leaders at local, state and national levels.

Qualifications include a D.V.M. or equivalent degree, a distinguished record of teaching and research, and demonstrated leadership and administrative abilities. We seek candidates who have a deep commitment to academic excellence; who understand the challenges posed by changes in the national veterinary environment; and who will be able to lead the School in its continuing development and in fulfilling its mission as part of a major land-grant university.

Salary will be commensurate with experience and qualifications. The starting date will be September 1, 1996, or as negotiated.

Applications and nominations should be received by December 1 to ensure full consideration. The position will remain open until filled. Applications, including a cover letter, curriculum vitae, and the names, addresses, and telephone numbers of five references, should be sent to:

Chancellor Larry N. Vanderhoef

Office of the Chancellor

University of California

Davis, CA 95616-8558

An Equal Opportunity--Affirmative Action Employer

RESEARCH ROUNDTABLE DIRECTOR

The National Research Council (NRC), the principal operating arm of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine, a non-profit, non-governmental organization located in Washington, D.C., invites applicants for the position of Director of the Government-University-Industry Research Roundtable (GUIRR). GUIRR is one of the major units of the NRC. GUIRR comprises senior officials in the federal government, universities, and industry, and its staff is part of the NRC. The incumbent plans and oversees a broad range of programs related to policy and other issues relating to the nation's research emphasizing key issues of common interest to government, universities, and industry.

The GUIRR Director, working with the Chair and members of the Roundtable and its Executive Committee, will develop an agenda for the late 1990's and beyond. The incumbent is responsible for all scientific, financial, and administrative operations of the unit, in coordination with cognizant GUIRR project chairs, and subject to staff coordination by the Director of the NRC Policy Division and the Executive Officer of the NRC.

Applicants should have the following qualifications: Ph.D. degree or equivalent, preferably with an emphasis directly related to science policy and/or public policy, ten or more years experience related to GUIRR's field of interest; demonstrated administrative/supervisory experience, preferably in a volunteer organization; demonstrated capacity to conceive, design, and execute policy studies; demonstrated writing, analytic, and oral communication skills; ability to interact effectively with senior leaders in government, academia, and industry. Highly desirable traits include demonstrated familiarity with U.S. institutions of higher learning and their policies and workings; demonstrated familiarity with academic and non-academic research, and first-hand familiarity with the corporate sector, especially with respect to corporate support for and utilization of research.

Please send resume in confidence to: NRC, GUIRR/ED, NAS 242(SC), 2101 Constitution Avenue, NW, Washington, DC 20418. All resumes must be received by October 20, 1995. EOE



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BATES COLLEGE

LEWISTON, MAINE 04240

Program in Environmental Studies



Announcement of Position

Bates College invites applications for a tenure track position in Environmental Studies at the level of assistant professor, beginning September 1996.

Candidates must have a Ph.D. or appropriate terminal degree in Environmental Studies or a closely related field, with demonstrated interdisciplinary teaching and research interests in environmental studies. A strong commitment to undergraduate education and a research program involving undergraduate students are expected. Bates College is inaugurating a new interdisciplinary program and major in Environmental Studies during the 1996-97 academic year; the new faculty member will play a leading role in the development of the major.

Applicants should submit a cover letter along with a 1 or 2 page statement of research objectives and teaching interests, curriculum vitae including publications, academic transcripts, and the names, addresses, e-mail, and fax numbers of three references. All material should be sent to:

Environmental Studies Search
c/o Secretarial Services
2 Andrews Road, 7 Lane Hall
Bates College
Lewiston, Maine 04240

DEADLINE: December 1, 1995

BATES COLLEGE VALUES A DIVERSE COLLEGE COMMUNITY AND SEEKS TO ASSURE OPPORTUNITY THROUGH A CONTINUING AND EFFECTIVE AFFIRMATIVE ACTION PROGRAM. WE WELCOME APPLICATIONS FROM WOMEN AND MINORITIES.

POSITIONS OPEN

DUKE UNIVERSITY CELL/MOLECULAR BIOLOGY

POSTDOCTORAL POSITION: Investigate the gene regulation of antioxidants and proinflammatory cytokines in models of lung injury and repair. Approaches include quantitative RT-PCR, differential display, and gene transfection. Please submit a curriculum vitae with references to: **Rodney Folz, M.D., Ph.D., Duke University Medical Center, Box 3177, Durham, NC 27710. Telephone: 919-684-2513; FAX: 919-684-3067. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS available to study genes that determine the yeast replicative life span, their human homologs and age-responsive promoter elements (*Genetica*, 91:35, 1993; *J. Biol. Chem.*, 269:15451, 1994; *J. Biol. Chem.*, 269:18638, 1994). Experience in molecular techniques essential and in yeast genetics helpful. Send curriculum vitae with bibliography and names, telephone and fax numbers of three references to: **Dr. S. Michal Jazwinski, Department of Biochemistry and Molecular Biology, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION to study inhibitors of cellular adhesion molecule expression and effects upon inducing an inflammatory response. Previous experience with mammalian cell culture, animal handling, and the isolation of murine endothelial cells desired. Send curriculum vitae, a statement of experience, and the names, addresses, and telephone numbers of three references to: **Dr. Glenn Hoke, Dyad Pharmaceutical, 9110 Red Branch Road, Suite K, Columbia, MD 21045. FAX: 410-715-9195.**

POSTDOCTORAL FELLOWSHIP University of Hawaii Department of Zoology

Opening available immediately for a **POSTDOCTORAL FELLOW** to work as part of a research team investigating the comparative physiology and molecular biology of invertebrate transport proteins. Position involves application of molecular biological techniques to elucidate gene sequences of plasma membrane transport proteins occurring in specific invertebrate epithelial cells. Qualifications: Ph.D. in the Biological Sciences with demonstrated expertise in molecular biology and an ability to work independently and communicate well. Submit résumé, including list of publications and education, and names and addresses of at least three references to: **Professor Gregory A. Ahearn, Department of Zoology, University of Hawaii, Honolulu, HI 96822. Deadline for applications: 15 November 1995.**

FELLOWSHIP IN EXPERIMENTAL NEURO-ONCOLOGY

Two one to two year **FELLOWSHIPS** in Experimental Neuro-Oncology are offered for qualified M.D., Ph.D., and M.D./Ph.D. applicants interested in a research career in Neuro-Oncology. Individuals will work with and in the laboratory of a specific scientist within the Neuro-Oncology Program of the Mayo Comprehensive Cancer Center, Rochester, Minnesota. The areas of potential investigation include, but are not limited to, signal transduction, molecular genetics, developmental pharmacology, and experimental epidemiology. Interested individuals should send copies of their curriculum vitae and bibliography and two letters of reference to: **B. P. O'Neill, M.D., Department of Neurology, Mayo Clinic, 200 First Street SW, Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.**

POSTDOCTORAL FELLOW

A **POSTDOCTORAL POSITION** is available immediately to study the molecular biology of the NF- κ B/Rel signaling pathway in T cell activation. Experience in protein biochemistry and molecular immunology desired. Send curriculum vitae and three letters of recommendation to: **Dean W. Ballard, Ph.D., Department of Microbiology and Immunology, Vanderbilt University School of Medicine, 815 Light Hall, Nashville, TN 37232-0295.**

Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

A position is available immediately for an imaginative and ambitious **POSTDOCTORAL** to work on a project involving AFM and Electron Microscopy of cell junctions, in particular the formation of gap junctions. The successful candidate will have a recent Ph.D. in Molecular/Cell Biology or Physical Sciences and will be interested in developing skills in Microscopy and Cell Biology. The laboratory is well equipped and the environment provides many opportunities for growth. The starting salary is \$24,000 plus benefits. Send curriculum vitae and names of references to: **Prof. Jean-Paul Revel, Division of Biology 156-29, Caltech, Pasadena, CA 91125. Email: revelj@romeo.caltech.edu; FAX: 818-795-0609. Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans and disabled persons are encouraged to apply.**

Laboratory for Biomaterials Research/Department of Chemistry at Rutgers University has openings for **POSTDOCTORAL ASSOCIATES** with expertise in synthesis, polymer science, or tissue engineering. Starting salary: \$30,000 plus excellent benefits. Outstanding prior research accomplishments and proficiency in English required. Send résumé, current U.S. visa status, and names of three references to: **Wright-Rieman Laboratories, P.O. Box 939, Piscataway, NJ 08855-0939. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS Molecular Regulation of Hepatic Gene Expression

Two **POSTDOCTORAL POSITIONS** are available to study molecular mechanisms mediating effects of insulin on hepatic gene expression. One postdoctoral investigator will characterize novel DNA/protein complexes and DNA/protein interactions by methylation interference, affinity labeling, and Southwestern blotting/cloning. Another investigator will examine the role of signaling pathways in mediating insulin effects via defined response sequences, using kinase assays and transfection models. Send curriculum vitae and names and telephone numbers of three references to: **Dr. Terry Unterman, Endocrine Section (M/C 640), Department of Medicine, University of Illinois College of Medicine at Chicago, 840 South Wood Street, Chicago, IL 60612. FAX: 312-455-5877.**

RESEARCH ASSOCIATE position available immediately to study the molecular/biochemical mechanisms of regulated cell growth differentiation in myeloid cells and therapeutic drug carriers tumor cells. Candidates with a background in molecular biology/biochemistry, interested in pursuing a career in the area of cancer biology in a translational research oriented laboratory, should send a résumé, names and addresses of three references to: **Dr. Gabriel Lopez-Berestein, Department of Bioimmunotherapy-Box 60, University of Texas M. D. Anderson Cancer Center, Houston, TX 77030, U.S.A. FAX: 713-796-1731. The University of Texas M. D. Anderson Cancer Center is an Equal Opportunity Employer and a smoke free workplace. This program encourages application from women and minorities.**

POSTDOCTORAL RESEARCH ASSOCIATE position is available for NIH-funded research for a recent Ph.D. graduate to study the role of insulin like growth factor signaling on growth and differentiation pathways in malignant myogenic cells. Applicants should have a strong background in molecular pharmacology and molecular/cell biology techniques. Send curriculum vitae with names of three references to: **Dr. P. Houghton, Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105-2794. Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE

An active laboratory examining the mechanism of altered wound healing seeks a **RESEARCH ASSOCIATE** to assist with the performance of molecular analysis for the evaluation of the regulation of wound healing. The candidate should be experienced in trauma injury models, techniques of apoptosis, and the detection and regulation of growth factors. Experience with routine techniques to detect RNA and protein levels is required. Candidate must be a Ph.D. This position offers great potential for obtaining grant support from the Shriners of North America. Please send curriculum vitae to: **Business Manager, Department of Surgery, PO Box 670558, Cincinnati, OH 45267-0558.**

POSITIONS OPEN

MBL MED BIOTECH LABORATORIES KAMPALA, UGANDA

Three **RESEARCH ASSOCIATE POSITIONS** in Molecular Parasitology are available to clone and characterize lipid modification enzymes of *Ondocera volutus* as possible targets of drug development, and to identify and clone genetic markers of ivermectin resistance in parasitic nematodes. Two positions require two to three years of experience in the techniques of screening gene libraries, cloning and expression in bacteria and other expression systems, DNA sequencing, PCR, RNA, PCR finger printing heteroduplex analysis, and RFLPs. One position will require training in biochemistry with experience in enzymology. Send résumé and the names of three references to: **Dr. Thomas G. Egwang, MBL, P.O. Box 9364, Kampala, Uganda. FAX: 256-41-268251.**

POSTDOCTORAL/SCIENTIST position to join a multidisciplinary program to study receptors and subsequent signaling events regulating exocrine secretion by a long-overlooked epithelial cell type, glandular mucous cells. Research will use molecular biological and other contemporary biochemical and microscopic techniques. Position and salary are commensurate with experience. Send curriculum vitae and three letters of recommendation to: **David J. Culp, Ph.D., University of Rochester, School of Medicine and Dentistry, Box 611, Rochester, NY 14642. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.**

Infectious Diseases FELLOWSHIP: Research Training in Infectious Diseases/Geographic Medicine—Unexpected opening at Case Western Reserve University (CWRU) for qualified M.D. fellowship applicant in NIH-sponsored research training program for 1996 through 1997. Areas of research include mycobacterial diseases, parasitic infections, antimicrobial resistance, molecular retrovirology, and bacterial host defense. *U.S. citizenship or permanent residency required.* Send curriculum vitae and letters of reference to: **W. Henry Bloom, M.D., Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4984. CWRU is an Equal Opportunity/Affirmative Action Employer.**

ELECTRON MICROSCOPIST

The Scripps Research Institute (TSRI), the nation's largest not-for-profit biomedical research institution, has an immediate opening for an **ELECTRON MICROSCOPIST** to provide assistance for investigators who use the Institute central facility.

A qualified candidate will have a bachelor's and/or Master's degree in a Biological or Biomedical Science with at least five years of experience performing EM procedures with many, if not all, of the following: negative stain, thin-sections, immunolabeling, freeze-fracture, rotary-shadowing, and cryo sectioning.

TSRI offers a challenging environment and an outstanding benefits package. Qualified candidates please send your résumé as soon as possible to: **The Scripps Research Institute, Ref. AMSCD106, 10666 North Torrey Pines Road, La Jolla, CA 92037. FAX: 619-554-6668. We value and support diversity in our workforce! Affirmative Action/Equal Opportunity Employer.**

MEETING

**NATO ADVANCED STUDY INSTITUTE (ASI)
The Physiological Ecology of Harmful Algal Blooms
(Co-sponsored by SCOR and the IOC)
27 May to 6 June 1996 at the Bermuda Biological
Station for Research**

Objectives: Assess present understanding of fundamental physiological and ecological issues underlying harmful algal blooms ("red tides"); identify inadequacies, impediments, and areas for future research; and advance and disseminate new approaches and technologies. Further information and application forms can be obtained from the ASI Director: **Donald M. Anderson, Biology Department, MS 32, Woods Hole Oceanographic Institution, Woods Hole, MA 02543 U.S.A. FAX: 508-457-2134; Email: danderson@whoi.edu. Application deadline: 1 January 1996.**

THE ROCKEFELLER FOUNDATION

POSTDOCTORAL POSITION IN AGRONOMY - MEXICO

The Rockefeller Foundation seeks a postdoctoral agronomist with experience in soil fertility/organic matter management for a program supporting research to improve smallholder, maize-based, agricultural systems in Mexico. The selected candidate will be assigned to a national research institute or university in Mexico that is a grantee of the Foundation.

In Mexico, traditional systems are based on slash-and-burn. With increased pressure on land, fallow periods are short or non-existent and soil fertility is being depleted. Growing maize intercropped or in rotation with legumes (cover crops, green manures, aboneras, slash/mulch systems) apparently has good potential for restoring soil fertility and contributing to a more sustainable and productive agriculture. Such systems, with their multiple variations - are being adopted by farmers in some regions in Central America and Mexico but their effects on labor requirement, soil fertility, soil organic matter, nutrient cycling, weeds, pests, and disease dynamics have not been fully investigated. The program aims at assessing the sustainability of these systems, and improving their productivity and stability through high quality, targeted research.

The successful candidate must be willing to live and conduct field work in the tropics, have excellent academic records, and proficiency in Spanish. She/he will help evaluate research ideas and priorities, contribute to the formulation and implementation of a research agenda responsive to farmers' needs, promote collaboration and coordination among different projects, and participate in the implementation of research activities within a network of local and international scientists from different disciplines.

Interested candidates should send a letter by November 15, 1995, indicating why they are qualified for and interested in the position, enclosing a current curriculum vitae (including academic transcripts), and arrange for three or more letters of reference to be sent to: Mexico Postdoctoral Search, Agricultural Sciences Division, Rockefeller Foundation, 420 Fifth Avenue, New York, NY 10018-2702.

The Rockefeller Foundation is an Equal Opportunity/Affirmative Action Institution

THE ROCKEFELLER FOUNDATION

POSTDOCTORAL POSITION IN AGRONOMY - MALAWI

The Rockefeller Foundation seeks a postdoctoral agronomist for a Foundation-funded program on soil fertility research and development work in Malawi. Over 80% of the Malawian population relies on maize as a staple food, and the crop is planted on approximately 70% of arable smallholder land. The selected candidate will work closely with members of one subgroup of an interdisciplinary Maize Productivity Task Force recently set up by the Government of Malawi which has a mandate to develop and implement policies aimed at increasing maize yields in Malawi.

The aim of the group is to "develop and implement strategies to increase maize production by integrating and increasing production and management of organic matter for resource poor smallholder farmers in Malawi." The Organic Matter Group consists of a small but well-qualified group of scientists, extension specialists drawn from the Malawi Government, Bunda College of Agriculture at the University of Malawi, development projects, NGOs and the International Center for Research Agroforestry.

The successful applicant will have an excellent academic record, developing-country field work experience and the ability to work co-operatively as a member of a research team. Experience in designing and implementing on-farm trials is essential. Field exposure to participatory farmer methods and a disposition to working with communities is highly desirable. The agronomist will work as a member of a team to help develop innovative ideas to help increase crop productivity on depleted smallholder soils. The team is assessing legume and biomass producing species, soil fertility management practices, agroforestry, intercropping systems, and socio-economic constraints to adoption.

The position will be based at Chitedze Research station outside Lilongwe, the capital of Malawi, and will require extensive field work throughout Malawi. The Lilongwe Office of The Rockefeller Foundation will provide local logistical support for the post but the appointee will work under the guidance of the ICRAF's Project leader for the Malawi-ICRAF Agroforestry Project.

Interested candidates should send a letter by November 15th, 1995, indicating why they are qualified for and interested in the position, enclosing a current curriculum vitae (including academic transcripts), and arrange for three or more letters of reference to be sent to: Malawi Postdoctoral Search, Agricultural Sciences Division, The Rockefeller Foundation, 420 5th Avenue, New York, NY 10018-2702.

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THE UNIVERSITY OF CALIFORNIA, IRVINE SCHOOL OF BIOLOGICAL SCIENCES ANNOUNCES 3 FACULTY OPENINGS

UCI's School of Biological Sciences has 75 full-time faculty members conducting innovative research in areas such as molecular, cellular and developmental biology, neurobiology, biochemistry, genetics, ecology and evolutionary biology. Together with the basic science departments of the College of Medicine, we operate several well regarded graduate programs. Adding to our successful recruitment of four new faculty members last year, we currently have three tenure-track positions which will require selected candidates to develop and maintain active research programs and to participate in undergraduate and graduate teaching. For each faculty opening, interested candidates should submit a curriculum vita, a description of previous and planned research, a statement of teaching experience, and the names and addresses of three references to the attention of the persons listed below BY DECEMBER 15, 1995.

Department of Developmental and Cell Biology

Assistant Professor

CELL BIOLOGY - Tenure Track

The successful candidate will be expected to develop and maintain an active, funded research program on signal transduction and/or cell-cell signaling, and to participate in teaching cell biology at both graduate and undergraduate levels. Preference will be given to applicants who will strengthen the cell biology research activities in the department. Research interests in the department include molecular genetics, developmental biology, cell biology, and molecular neurobiology. Send materials to: Dr. Peter J. Bryant, Department of Developmental and Cell Biology, UCI, Irvine, CA 92717-2300.

Department of Psychobiology

Assistant Professor

LEARNING AND MEMORY - Tenure Track

Current departmental research emphasizes plasticity with a focus on problems of learning and memory, interactive neuroscience and aging/neurodegeneration. The successful candidate will be a neurobiologist working at the molecular, cellular, systems or behavioral levels in the area of learning and memory. We anticipate the candidate's research will complement current Departmental research programs and have a manifest relationship to some behavioral endpoint. Send materials to Dr. H.P. Killackey, Department of Psychobiology, UCI, Irvine, CA 92717-4550.

Department of Molecular Biology and Biochemistry

Assistant/Associate Professor

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The successful candidate will have a background in macromolecular crystallography in the study of fundamental biological problems. Facilities at UCI include high field NMR, state-of-the-art x-ray diffraction equipment, and excellent computing facilities including access to the UCSD Super Computing Center. Send materials to: Dr. Thomas Poulos, Department of Molecular Biology and Biochemistry, UCI, Irvine, CA 92717-3900.

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BIOCHEMISTRY AND MOLECULAR BIOLOGY

TENURE TRACK FACULTY POSITIONS

The Department of Biochemistry and Molecular Biology at the University of Miami School of Medicine will undergo a period of major expansion during the next few years. Although emphasis will be on junior faculty, we will consider applicants at all levels. We seek candidates studying fundamental cellular processes at the molecular level. At this time we plan to fill several positions with individuals whose research interests involve prokaryotic or yeast systems. Successful applicants will be expected to develop an independent research program using modern biochemical and molecular biological techniques to address a significant problem at the molecular level. Generous start-up packages and laboratory space are available to help initiate these programs.

Applicants should have a doctoral degree and relevant postdoctoral experience. Demonstrated excellence in research and clear indications of an ability to initiate a strong research program are essential. Candidates should also be able to function effectively as a lecturer and in more informal teaching situations at all levels. Interested individuals should send a complete curriculum vitae, at least three letters of recommendation, a brief description of previous research experience and future research plans, and reprints of most significant work to:

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Faculty Search

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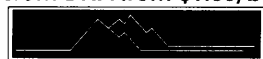


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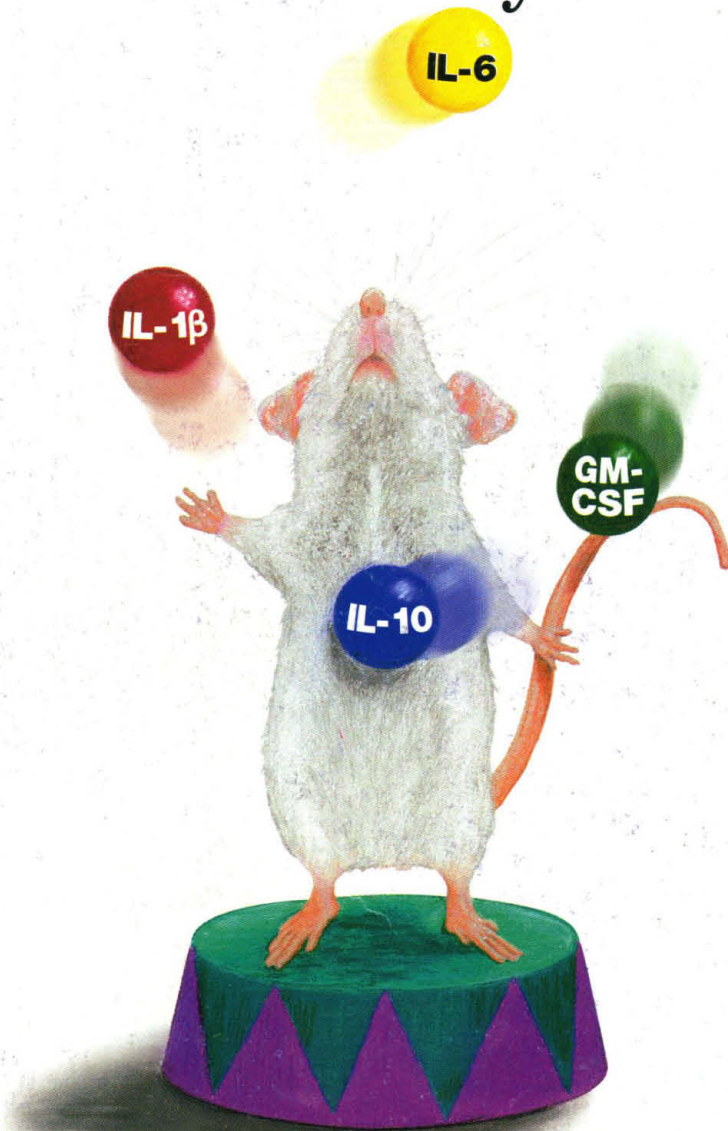
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