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Human Genome Mapping CD-ROM

Genome Interactive Database (GID) gathers together a large proportion of the available knowledge about human genome mapping, including the GENATLAS, CEPH, CEPH/GENETHON, and GENSET databases. The interactive database is easy to use and should save researchers time by consolidating information into a single source. GID is available in Windows and Macintosh versions. **Dawson. Circle 140.**

Tangential Filtration System

The ProFlux M12 is a sanitary, benchtop tangential filtration system for concentration or purification of solutions from laboratory size to 100 liters. The system is designed for laboratory test runs, pilot studies, and small-scale production in microbiology and



biochemistry. Applications include aseptic processing, concentration of biological solutes, cell harvesting and washing, bacteria and pyrogen removal, and concentration of plasma factors. The system is available with a choice of cartridges for ultra- or microfiltration with spiral, hollow fiber, or cassette-type filtration. **Amicon. Circle 141.**

Laboratory Management Software

BioServe software can organize laboratory data and maintain accurate accounting information at the same time. Whether a lab

performs DNA synthesis, peptide synthesis, protein sequencing, or amino acid analysis, BioServe has built-in features to help become more productive. The program is written in Fourth Dimension and makes use of that relational database's extensive programming capability. For example, the DNA synthesis module has three mechanisms for checking a DNA sequence. First, the program computes the correct sequence length from the entered sequence and compares it with the entered sequence length. Second, the sequence field has base recognition capability, and third, the computer reads the entered sequence back to the user for comparison with the original order. **AnaSpec. Circle 142.**

Mitochondrion Selective Dyes

MitoTracker fluorescent dyes are novel mitochondrion-selective dyes that are well retained during cell fixation and permeabilization, unlike conventional fluorescent stains that are washed out once the mitochondrial membrane potential is lost. MitoTracker derivatives of both tetramethylrosamine and dihydrotetramethylrosamine are available. Once the MitoTracker probe accumulates in the mitochondria, it can react with accessible thiol groups on peptides and proteins to form an aldehyde-fixable conjugate. Following fixation and permeabilization, cells can be double-labeled with an antibody directed against a mitochondrial protein or other cellular marker. MitoTracker reagents should eliminate some of the hazards of working with infected cells because once staining is complete, the cells can be treated with fixatives before further analysis. **Molecular Probes. Circle 143.**

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



RNA Isolation

An innovative technique for the extraction and isolation of intact RNA from cells combines Savant's FastPrep with BIO 101's FastRNA isolation kits. The process takes less than 40 min and can be used for cells from which RNA extraction typically has been difficult or impossible. The resulting total RNA is suitable for mRNA isolation, Northern blots, reverse transcriptase polymerase chain reaction, RNase protection assays, and in vitro translation. **Savant Instruments and BIO 101. Circle 144.**

Protein Biotinylation System

The new ECL (enhanced chemiluminescence) protein biotinylation kit is for the nonradioactive labeling and detection of proteins. A complete experiment, including labeling and detection, can be completed in less than 4 hours. Applications for the kit include a wide variety of antibody and protein-based studies such as protein immunoblotting, immunoprecipitation, and ligand blotting. Labeling of the proteins can take place either in solution prior to blotting or on the membrane after blotting. The latter is particularly useful for the estimation of total protein with detection by

immunometric methods or by ECL. **Amersham International. Circle 145.**

Grant Accounting Software

Grant Tracker 5.0 is an upgrade of a software program for grant expenditure accounting with up-to-the-minute information on expenses and personnel. Many new accounting and report features have been added. Grant Tracker can be used by a principal investigator whose secretary has no bookkeeping experience or by a central administrator who handles grants for many principal investigators. Windows, DOS, and Macintosh versions are available. **KCS Software. Circle 146.**

Literature

QIAexpress Protein Expression and Purification System describes a fast and versatile tool for the expression and purification of recombinant proteins and antigenic peptides. **Qiagen. Circle 147.**

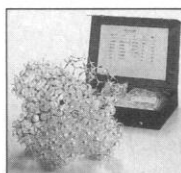
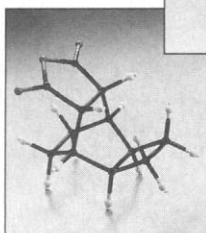
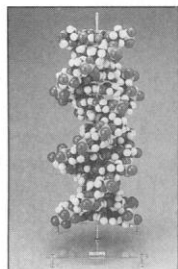
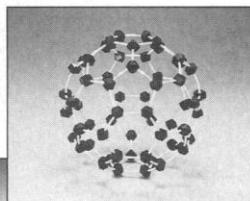
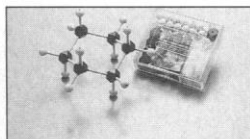
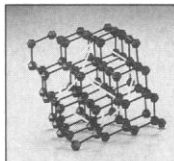
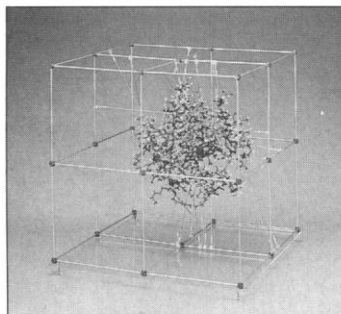
Biological Buffers describes more than 100 products for molecular biology, electrophoresis, cell culture, immunoassay, and routine biological applications. The buffers are provided in several forms, including powders, tablets, pouches, capsules, and liquids. **Sigma Chemical. Circle 148.**

1994 Reagents and Kits for Immunology is a catalog that introduces more than 150 new products. Among the more than 600 products are a full line of antibodies for immunophenotyping, immunohistochemistry, and cell biology. OptiLyse No-Wash Lyse and OptiClone Monoclonal Antibodies for flow cytometry are new to this year's catalog. **IMMUNOTECH. Circle 149.**

Research Products for Gene Regulation, Gene Repair, and Gene Technology is a catalog that includes prices. **Trevigen. Circle 150.**

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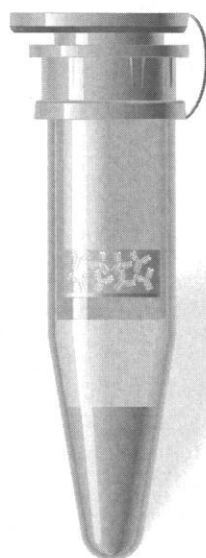
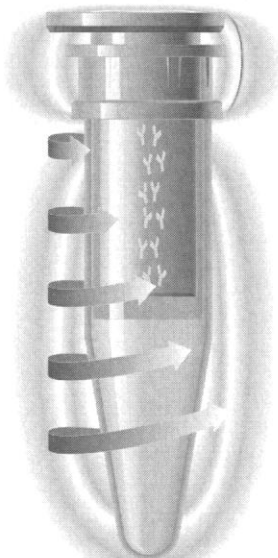
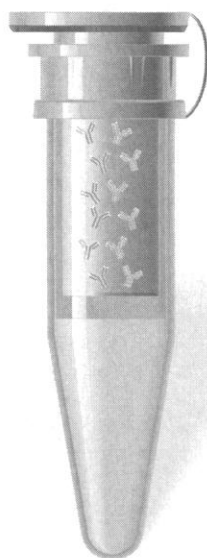
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CONDITIONS: The AAAS encourages employers to actively recruit and employ underrepresented minority groups. *Science* reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN



MICROBIOLOGY AT OHIO STATE UNIVERSITY-MANSFIELD

The Department of Microbiology is seeking applicants for a tenure-track **ASSISTANT PROFESSORSHIP** on the Mansfield Campus of The Ohio State University. Teaching expectations are five courses per year on the quarter system which includes Basic Microbiology for nursing students and Majors and Introductory Biology for Majors and non-majors. Applicants must have a Ph.D. in Microbiology or related discipline, a strong commitment to undergraduate teaching and an active research program. Preference will be given to applicants with expertise in molecular systematics, microbial ecology, or evolutionary mechanisms, who desire to collaborate with vertebrate zoologists. The successful applicant will join a botanist and two zoologists as the Mansfield Campus biology faculty and will be a member of the Ohio State University Department of Microbiology. The Mansfield Campus enrolls 1,500 students and teaches the first two years of most undergraduate curricula plus a few Baccalaureate and Master's programs. Send curriculum vitae, reprints, three letters of reference, and a brief description of teaching and research goals by November 23, 1994, to: **Dr. Tim M. Berra, Chair, Microbiology Search Committee, The Ohio State University-Mansfield, 1680 University Drive, Mansfield, OH 44906.** *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.*

TERRESTRIAL VERTEBRATE ECOLOGIST with Major Interest in Population Processes Baylor University

Tenure-track, **ASSISTANT PROFESSOR** position beginning 30 May 1995.

We seek an individual who uses modern methods, preferably experimentation, to understand population processes in field situations. Baylor University is committed to excellence in undergraduate and graduate education; the person filling this position must have strong interests in teaching and interacting with undergraduate and graduate students.

Duties: Teach courses in general and population ecology, develop courses in area of specialty, participate in general biology sequence, maintain a strong research program involving undergraduate and graduate students, and contribute to the growing graduate program in ecology, genetics, and evolution. Ph.D. required, postdoctoral lecture experience preferred.

Send letter of application, curriculum vitae, three letters of recommendation, graduate and undergraduate transcripts, description of research interests, example of recent publications, and a brief statement of teaching philosophy to: **Walter C. Holmes, Ph.D., Ecology Search Committee Chair, Department of Biology, Baylor University, Waco, TX 76798-7388. Telephone: 817-755-2911; FAX: 817-755-2969; Email: WALTER_HOLMES@BAYLOR.EDU.**

The deadline for receipt of completed applications is 15 December 1994.

Baylor University is a Baptist university affiliated with the Baptist General Convention of Texas. As an Affirmative Action/Equal Employment Opportunity Employer, Baylor encourages minorities, women, and persons with disabilities to apply. Position subject to budgetary approval.

ASSISTANT/ASSOCIATE PROFESSOR (tenure-track/tenured). Position available in the Division of Infectious Diseases, Department of Medicine, University of California, San Diego. Expertise in molecular or cell biology, and experience in microbial virulence determinants or pathogenesis is preferred. Must have evidence of research productivity and be capable of doing independent research. Appointment at the Associate level requires appropriate publication record and independent grant support. Must be Board-certified or -eligible in Infectious Diseases and be eligible for a California medical license. Salary is based on established UCSD salary scales. Apply by December 9, 1994, to: **Dr. Joshua Fierer, Head, Division of Infectious Diseases (111F), VA Medical Center, 3350 La Jolla Village Drive, San Diego, CA 92161.** *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

WEST VIRGINIA UNIVERSITY ROBERT C. BYRD HEALTH SCIENCES CENTER Anatomy Faculty Position

The Department of Anatomy at the West Virginia University Health Sciences Center invites applications for a tenure-track position at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Applicants should have a Ph.D. or M.D. or equivalent degree, with training and substantial relevant experience in some area of structural, cellular or molecular biology. They should have a record of significant research achievement and be prepared to mount a strong individual program of externally supported research. Research interests in the areas of neuroscience (especially developmental neuroscience) or lung biology would fit best with current departmental and institutional plans and programs, however other areas will be considered. Applicants with teaching experience and/or interest in innovative methods of instruction in Human Anatomy, Embryology, Neuroanatomy or Microanatomy are especially encouraged. This search will remain open until the position is filled, but the first review cycle will consider applications received by January 2, 1995. Applicants should send a current curriculum vitae and the names and addresses of four references to:

**Richard Wiggins, Chair
Department of Anatomy
WVU School of Medicine
Robert C. Byrd Health Sciences Center
P.O. Box 9128
Morgantown, WV 26505-9128**

An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

FACULTY POSITION MICROBIOLOGY

The Department of Biological Sciences at the University of Pittsburgh anticipates making one full-time tenure-track faculty appointment in the area of microbiology beginning September 1995, subject to budgetary approval, to continue expansion of the Department. This appointment is expected to be made at the **ASSISTANT PROFESSOR** level, but under exceptional circumstances experienced candidates with outstanding records will be considered for appointment at higher rank. Research interests in any area of microbiology will be considered but applicants working in the areas of bacterial pathogenesis, bacterial genetic regulation or host-pathogen interactions are particularly encouraged to apply. The successful candidate must have a Ph.D. and extensive postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. In order to ensure full consideration, applications must be received by December 9, 1994. Applicants should send a curriculum vitae along with a summary of research interests and goals, and arrange to have at least three letters of reference sent to:

**Dr. Graham Hatfull
Microbiology Search Committee
Department of Biological Sciences
University of Pittsburgh
Pittsburgh, PA 15260
412-624-6975**

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

PLANT MOLECULAR SYSTEMATIST—The Systematic and Evolutionary Biology Group, Department of Biological Sciences, Kent State University seeks applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to start August 20, 1995. Candidates will teach undergraduate and graduate courses in plant systematics, develop a rigorous research program in molecular plant systematics/evolution of higher plants, actively seek extramural funding, participate in the graduate program, and curate the herbarium. A Ph.D., publications, and potential for extramural funding are required. Postdoctoral experience is desirable. Applications are due by December 6, 1994, and must include a letter of application, a résumé, copies of latest or significant publications, and three letters of recommendation. Academic transcripts must be forwarded by January 9, 1995. Submit applications to: **Dr. Conrad E. Wickstrom, Chair, Search Committee, Department of Biological Sciences, Kent State University, Box 111, Kent, OH 44242.** *Kent State University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITION MAMMALIAN MOLECULAR GENETICS

The Department of Biological Sciences at the University of Pittsburgh anticipates making one full-time tenure-track faculty appointment in the area of genetics beginning September 1995, subject to budgetary approval, to continue expansion of the Department. This appointment is expected to be made at the **ASSISTANT PROFESSOR** level, but under exceptional circumstances experienced candidates with outstanding records will be considered for appointment at higher rank. Applications are invited from candidates with research interests in any area of mammalian biology. Individuals with a strong research emphasis on genetic models of developmental or disease processes are especially encouraged to apply. The successful candidate will join another faculty member in utilizing our transgenic core facility. The successful candidate must have a Ph.D. and extensive postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. In order to ensure full consideration, applications must be received by December 9, 1994. Applicants should send a curriculum vitae along with a summary of research interests and goals, and arrange to have at least three letters of reference sent to:

Dr. Richard Chaillet
Genetics Search Committee
Department of Biological Sciences
University of Pittsburgh
Pittsburgh, PA 15260
412-624-6987

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

COMPARATIVE INSECT MORPHOLOGIST CORNELL UNIVERSITY

The Department of Entomology invites applications for a 12-month, tenure-track **ASSISTANT PROFESSORSHIP** to begin 1 July 1995. Successful candidate will establish leadership in comparative, phylogenetically based studies on the evolution of insects and/or other terrestrial arthropods. Research (50%) should have a morphological focus, addressing developmental, physiological, biomechanical, systematic, behavioral, or ecological topics. Teaching (50%) includes an insect morphology course, a general course in any aspect of entomology, and a specialty course or seminar. Applicants must have a Ph.D. in entomology or related field; training in comparative morphology of terrestrial arthropods; strong interests in insect biology, evolution, and phylogenetics; and interest and experience in teaching. Applicants should forward curriculum vitae, transcripts, statements of research and teaching goals and experience, reprints (\leq five), and names and addresses of four referees by 1 January 1995 to: **Dr. Roger A. Morse, Department of Entomology, Comstock Hall, Cornell University, Ithaca, NY 14853-0901.** *Cornell University is an Equal Opportunity/Affirmative Action Employer.*

PLANT BIOCHEMIST

The Institute of Biological Chemistry at Washington State University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. The position is 100% research with a 12-month appointment beginning September 1, 1995. Teaching at the graduate level is encouraged. Applicants must have a Ph.D. or equivalent, postdoctoral experience, and an established record of research using biochemical and molecular approaches relevant to basic plant biology and agriculture. The ability and commitment to build a strong, well-funded program of international stature is essential. The Institute provides an excellent research environment with more than 100 scientists, expansive growth facilities, modern equipment, and ready access to specialized methods and analytical services. Candidates should submit a curriculum vitae, statement of research interests, and description of future plans. In addition, applicants should arrange for three letters of reference to be sent to: **Dr. John Browse, Search Committee Chair, Institute of Biological Chemistry, 467 Clark Hall, Washington State University, Pullman, WA 99164-6340.** Telephone: 509-335-2293; FAX: 509-335-7643; Email: browse@WSUVM1. Deadline: December 12, 1994, or until a suitable candidate is identified. *Equal Opportunity Employer/Affirmative Action/ADA.*

POSITIONS OPEN

FOOD ANIMAL RESEARCH POSITION. The Department of Animal Health Research, College of Veterinary Medicine and Alabama Agricultural Experiment Station, Auburn University, Alabama, is seeking a food animal research scientist. Appointment will be as an **ASSISTANT/ASSOCIATE PROFESSOR** (tenure-track). The Ph.D. degree is required. The D.V.M. degree is desirable. Background in immunology, microbiology, and/or molecular biology is required. Training or experience in research of infectious diseases of food animals is required. Experience and desire to work with infectious diseases of cattle is preferred. At least 80% of the individual's effort will be in food animal health research. Additional responsibility to an academic department will include teaching in the graduate and/or professional programs. Salary will be commensurate with training and experience. Application deadline is January 15, 1995, or until position is filled. Position is available immediately. Applicants should send a curriculum vitae, letter of application including research and teaching objectives, and names and addresses of five references. Inquiries and applications should be addressed to: **Dr. Robert C. Wilson, Department of Physiology and Pharmacology, College of Veterinary Medicine, Auburn University, AL 36849.** Telephone: 205-844-4425; FAX: 205-844-5388; Email: WilsonRC@VetMed.Auburn.edu.

Auburn University is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER RUSH MEDICAL COLLEGE

The Department of Pharmacology at Rush-Presbyterian-St. Luke's Medical Center in Chicago invites applications for **ASSISTANT PROFESSOR** and **ASSOCIATE PROFESSOR** tenure-track positions from individuals interested in cellular and molecular aspects of vascular and lung biology. We encourage applications in the area of regulation of endothelial adhesion molecules, biology of extracellular matrix, signal transduction mechanisms, control of microcirculation, and gene transfer in the vascular endothelium. Collaborations within the medical center are extensive. Competitive start-up funds will be available to the successful applicants. It is expected that the candidate will have existing extramural support or would be highly competitive for funding. Applications will be reviewed starting immediately and will continue until suitable candidates are identified. Candidates should submit a curriculum vitae, statement of research interests, and the names of three references to:

Dr. A. B. Malik, Chairman
Department of Pharmacology
Rush-Presbyterian-St. Luke's Medical Center
Rush Medical College
1750 West Harrison Street, Suite 1589 Jelke
Chicago, IL 60612

Rush-Presbyterian-St. Luke's Medical Center is an Affirmative Action/Equal Opportunity Employer.

The Department of Biology, University of Puerto Rico, Rio Piedras invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. The candidate is expected to develop an active research program in plant molecular systematics or related field, to supervise a shared molecular systematics research facility, and to teach at the graduate and undergraduate level. Candidates must hold a Ph.D. or equivalent degree and have postdoctoral experience. Interested candidates should send résumé, a statement of current and future research goals and three letters of reference before December 1, 1994, to: **Dr. José E. García-Arrarás, Acting Chair, Department of Biology, Box 23360, University of Puerto Rico, Río Piedras, Puerto Rico 00931-3360.** *University of Puerto Rico is an Affirmative Action/Equal Opportunity Employer.*

BOTANIST, ASSISTANT PROFESSOR. Tenure-track, fall 1995. Ph.D. in botany with systematics. Commitment to undergraduate teaching and research required. Introductory team-taught course with laboratory, field biology with botany, and involvement in environmental science program. Candidates should be conversant with the values embodied in the tradition of Valparaíso University as a Lutheran community. Near Chicago. Submit application, curriculum vitae, transcripts, and three letters of recommendation. Review begins 1 December 1994. **Dr. David W. Scupham, Chair, Biology Department, Valparaíso University, Valparaíso, IN 46383-6494.**

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOCHEMISTRY UNIVERSITY OF CALIFORNIA, RIVERSIDE

The Department of Biochemistry invites applications for a tenure-track position of **ASSISTANT PROFESSOR** of Biochemistry. Qualifications for the position include a strong potential for imaginative research in any area of contemporary vertebrate molecular biology. Individuals whose scholarship is broadly in the areas of gene transcription, molecular endocrinology, molecular immunology, molecular virology and related fields are particularly encouraged to apply. The Department of Biochemistry presents both a Ph.D. and a M.S. program (currently 33 students) and an undergraduate major (currently 250 undergraduate majors) in Biochemistry. Areas of research strength of our 15 member faculty include physical and structural biochemistry, plant biochemistry, molecular endocrinology, and biochemical regulation. The successful candidate must possess a strong commitment to teaching excellence and a high research potential; the candidate will be expected to actively participate in both graduate and undergraduate instruction, and will also receive an appointment in the Agricultural Experiment Station. Applicants must hold a Ph.D. or equivalent degree and have postdoctoral experience. Interested individuals should submit as soon as possible, but prior to February 1, 1995, a curriculum vitae, bibliography (including three recent reprints), a brief (limit of 500 words) description of proposed research interests, and request letters of recommendation be sent to us separately by three to five individuals (including all former mentors). These materials should be directed to: **Stephen R. Spindler, Chair of Search Committee, Department of Biochemistry-015, University of California, Riverside, CA 92521-0129.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY UNIVERSITY OF WASHINGTON

Applications are invited for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level in the Department of Pharmacology. For candidates with appropriate qualifications, appointment may be considered at the rank of associate professor. A Ph.D. or M.D. degree and postdoctoral research experience are required. Selection will be based on scientific excellence and the potential to establish an outstanding independent research program using molecular and cellular approaches to research problems in signal transduction or other aspects of molecular pharmacology. The successful candidate will teach and participate in graduate student training in the Department of Pharmacology, the Interdisciplinary Graduate Program in Neurobiology, and the Interdisciplinary Molecular and Cellular Biology Program. Applicants should send their curriculum vitae, a statement of research plans, and three letters of recommendation by January 1, 1995, to the **Pharmacology Search Committee, Department of Pharmacology, SJ-30, University of Washington, Seattle, WA 98195.** *The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. Affirmative Action/Equal Opportunity Employer.*

PLANT MOLECULAR BIOLOGY UNIVERSITY OF MARYLAND COLLEGE PARK

The Department of Botany invites applications for a nine-and-a-half month, tenure-track position at the preferred rank of **ASSISTANT PROFESSOR** starting August 1995. Higher ranks will be considered for exceptional candidates with appropriate credentials. We are seeking an outstanding molecular biologist who is investigating fundamental problems in plant biology. The successful candidate is expected to develop a nationally recognized, externally funded research program, and to teach an introductory course in the biology program and advanced courses in plant molecular biology. Applicants must have a Ph.D. degree and postdoctoral experience is highly desirable. Applicants should submit curriculum vitae, concise statements of research goals and teaching interests, and key reprints, and should request that three letters of reference be sent no later than 9 January 1995 to: **Dr. Todd Cooke, Chair Molecular Biologist Search Committee, Department of Botany, University of Maryland, College Park, MD 20742-5815.** FAX: 301-314-9082. *The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Qualified women and minority candidates are encouraged to apply.*

Tenure-Track And Postdoctoral Opportunities.

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

Tenure-Track Position

Assistant Professor Equivalent Molecular Genetics

Henning Birkedal-Hansen, DDS, PhD

A tenure-track position is available to conduct research, develop and manage an institute-wide program for gene manipulation. Candidate will be provided resources, including the opportunity to recruit technical support staff in this shared facility and be involved in training, and teaching of postdoctoral fellows. Candidate should have expertise in transgenic mouse and/or gene knockout technology and demonstrated outstanding research in molecular genetics. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Intramural Research Program (OE-59), NIDR, Building 30, Room 132, 30 CONVENT DR MSC 4326, BETHESDA MD 20892-4326.

Postdoctoral Positions

Control of DNA Replication Dhruba K. Chattoraj, PhD

Mechanisms that regulate replication are being studied *in vivo* and *in vitro* using plasmids of *E. coli*. Current projects include: replication during the cell cycle; quantitative analysis of DNA-protein and protein-protein interactions; protein structure-function relations; and chaperone-mediated protein folding. Candidates should have less than five years of postdoctoral experience and a background in molecular genetics. Experience in protein purification is desirable. Laboratory of Biochemistry (OE-59), NCI, Building 37, Room 4D18, 37 CONVENT DR MSC 4255, BETHESDA MD 20892-4255.

Developmental Genetics of Mammalian Ovary

Jurrien Dean, MD

Research focuses on the molecular biology of gonadogenesis, gene expression during oogenesis and mechanisms of species-specific fertilization. Studies are carried out in mice and involve a wide range of molecular, cellular and genetic experimental approaches. Candidates should be trained in current DNA/RNA methodologies and have less than five years of postdoctoral experience. Laboratory of Cellular and Developmental Biology (OE-59), NIDDK, Building 6, Room B1-26, 6 CENTER DR MSC 2715, BETHESDA MD 20892-2715.

Enzymes Active in Detoxication

William B. Jakoby, PhD

Enzymes of detoxication are being studied by enzymological and recombinant techniques. The catalytic and folding mechanism of a liver phenol sulfotransferase (recombinant) and its site-directed mutants are being examined, as is a novel enzyme which is active with organic carbonates. Applicants should have less than five years of postdoctoral experience. Laboratory of Biochemistry (OE-59), Building 10, Room 9N119, 10 CENTER DR MSC 1812, BETHESDA MD 20892-1812.

Gene Expression, DNA Replication and Chromatin

Jay H. Chung, MD, PhD

Novel strategies are being developed to study how transcriptional

enhancers and silencers interact with promoters, replication origins, and how they affect chromatin structure *in vivo*. Using the chicken β -globin domain insulator as well as matrix attachment regions as models*, studies are being developed on how domain boundaries are formed and their effect on transcription. Applicants must have less than five years postdoctoral experience. Molecular Hematology Branch (OE-59), NHLBI, Building 10, Room 7D18, 10 CENTER DR MSC 1654, BETHESDA MD 20892-1654. *See Chung et al. *Cell* 74, 505-514.

Insulin-like Growth Factors

Matthew M. Rechler, MD

IGF binding proteins (IGFBPs) modulate IGF action. To understand the mechanism of this regulation, recombinant mutant IGFBPs will be used to study the formation and function of plasma IGF-IGFBP complexes, and interactions of IGFBPs with target cells. Candidates should have experience in molecular biology and/or protein chemistry, and have less than five years of postdoctoral experience. Molecular and Cellular Endocrinology Branch (OE-59), NIDDK, Building 10, Room 8D14, 10 CENTER DR MSC 1758, BETHESDA MD 20892-1758.

Molecular Genetics

Edward Wilcox, PhD

An opportunity exists for a microbial geneticist to clone and study therapeutic enzymes from different microbial hosts. Candidates should have experience in molecular microbiology and have less than five years of postdoctoral experience. Laboratory of Molecular Genetics (OE-59), NIDCD, Building 36, Room 5D-08, 36 CONVENT DR MSC 4162, BETHESDA MD 20892-4162.

Additional Postdoctoral Fellowship Opportunities

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

The Postdoctoral Research Fellowship Opportunities catalog, which describes intramural laboratories at the NIH, is also available by request. An electronic version of the catalog may be accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (<http://www.nih.gov>). When connected, select *Research Opportunities at the NIH Office of Education*. If you would like to request a catalog or have further questions, please contact the Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, 301-496-2427, Fax 301-402-0483.

To Apply

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



National Institutes Of Health

Office of Education

The NIH is an Equal Opportunity Employer

POSITIONS OPEN

PLANT COMMUNITY/LANDSCAPE ECOLOGY AND ANIMAL PHYSIOLOGY

The Department of Biology, Division of Ecology and Organismal Biology at The University of Memphis invites applications for two tenure-track **ASSISTANT PROFESSOR** positions. Applicants must have a Ph.D.; post-doctoral experience is preferred. Successful candidates will develop strong, extramurally funded research programs, direct M.S. and Ph.D. students, and teach effectively at both undergraduate and graduate levels.

The Plant Ecologist will contribute to the undergraduate ecology course and teach upper division and graduate courses in plant community and landscape ecology. The Animal Physiologist will contribute to the anatomy and physiology course and teach upper division and graduate courses in the area of expertise. Preference will be given to applicants whose research interfaces/complements existing research interests.

Applicants should submit a letter of application, a curriculum vitae, a concise description of research and teaching interests, three reprints, and names of three references to: **Dr. W. Gutzke, Department of Biology, Division of Ecology and Organismal Biology, The University of Memphis, Memphis, TN 38152. Telephone: 901-678-2596; FAX: 901-678-4746; Email: Gutzkewh@cc.memphis.edu.** Evaluation of applications will begin December 1, 1994, and continue until the positions are filled.

Women and minority candidates are encouraged to apply. The University of Memphis is an Affirmative Action/Equal Opportunity Employer.

BIOCHEMIST—The College of St. Francis invites applications at the **ASSISTANT PROFESSOR** level for a biochemist committed to undergraduate science education in the context of a Catholic, liberal arts institution. The successful candidate will teach General Chemistry, Biochemistry, and a course in area of expertise. Pedagogical innovation, development of a research program which involves undergraduates, and the integration of chemistry course work with existing major programs in biology, environmental science, and allied health is essential. Ph.D. required. Salary and benefits are competitive. Send letter of application, curriculum vitae, transcripts, sample syllabi, and three letters of recommendation to: **Ms. Sharon Senfner, Science Search Secretary, College of St. Francis, 500 Wilcox Street, Joliet, IL 60453.** Review of applications will begin December 1, 1994. *College of St. Francis is an Equal Opportunity Employer and encourages the applications of qualified women and minorities.*

GENETICIST. Southern Oregon State College seeks applicants with training in molecular biology for a tenure-track **ASSISTANT PROFESSOR** to help revise and teach in a major's core curriculum that includes molecular aspects of genetics, development and cell biology and to establish an upper-division course in molecular biology. Other duties include participation in introductory biology and development of interdisciplinary general education courses. A broad interdisciplinary approach to teaching required. September 1995 start. Ph.D. required. The college focuses on undergraduate education and encourages research involving undergraduates. Send letter of application, curriculum vitae, statement of teaching experience and approach to teaching genetics, scholarly plans, list of pertinent courses taken, and names, addresses and telephone numbers of three references to: **Geneticist Search, Department of Biology, Southern Oregon State College, Ashland, OR 97520.** Preference given to applications received by December 15, 1994. *Southern Oregon State College is an Affirmative Action/Equal Opportunity Employer committed to development of an inclusive, multicultural community.*

ASSISTANT PROFESSOR OF BIOLOGY. Ph.D. required. One year appointment with possibility of continuation. Saint Joseph's University, a four-year liberal arts Jesuit University, is seeking a broadly trained biologist to teach freshman and sophomore laboratories and non-major courses, with the possibility of involvement in upper division offerings. Strength in organismal biology desirable. Please send curriculum vitae, copies of all transcripts, an outline of teaching and research goals, and names and telephone numbers of three references to: **Dr. John J. Tudor, Chair, Department of Biology, Saint Joseph's University, 5600 City Avenue, Philadelphia, PA 19131.** Review of applicants will begin late January 1995.

Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CORNELL COLLEGE Mount Vernon, Iowa Department of Biology

Cornell College, a private undergraduate liberal arts college, invites applications for a tenure-track appointment in its Department of Biology. Teaching responsibilities include introductory biology, cellular and molecular biology, an upper-level course in a field of specialty (preferably endocrinology, immunology or neurobiology), and supervision of student research. The successful candidate also will have the opportunity to teach other upper-level biology courses. Appointment at the **ASSISTANT PROFESSOR** level to begin in the fall of 1995. Shared appointment will be considered. Ph.D. required; postdoctoral experience and college teaching experience preferred. Cornell College has attracted national attention for its distinctive academic calendar under which faculty teach and students take one course at a time in month-long terms. The College is committed to excellence in teaching and encourages interdisciplinary interests among its faculty. Candidates for this position should have the ability to develop a research program which incorporates undergraduate students. Send letter, curriculum vitae, and three letters of reference to: **Ms. Ann Opatz, Assistant for Academic Recruitment, Cornell College, 600 First Street West, Mount Vernon, IA 52314-1098.** Formal consideration of applications begins December 1, 1994.

Cornell College is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.

ASSISTANT PROFESSOR OF ANATOMY

One tenure-track, 12-month faculty position at the **ASSISTANT PROFESSOR** rank. The initial contract is for two years and can begin January 1, 1995. Applicants must have a Ph.D. in Anatomy and a commitment to teaching. The major teaching would be in Gross Anatomy to Medical and Physical Therapy Students.

As required by the Immigration Control act, you must be able to provide documentation verifying the right to work in the United States.

Applicants should send a curriculum vitae and three letters of recommendation to:

**Rafi Younoszai, Ph.D.
Chair, Search Committee
College of Osteopathic Medicine of the Pacific
309 East 2nd Street
Pomona, CA 91766-1889**

The College is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from women and minorities.

ANIMAL PHYSIOLOGIST

The Department of Biology invites applications for a tenure-track faculty position at the rank of **ASSISTANT PROFESSOR.** In addition to undergraduate teaching in a highly selective liberal arts institution, the incumbent will be expected to develop a productive research program. Qualified candidates in any area of animal physiology will be considered, however preference will be given to biologists with postdoctoral experience, particularly in the area of neurophysiology. This position is available contingent upon funding; final approval is anticipated by early December 1994. Review of applications will begin 21 November 1994. Applicants should send a letter of interest, complete curriculum vitae, and the names, addresses and telephone numbers of three professional references to: **Dr. Lawrence E. Hurd, Head, Department of Biology, Washington & Lee University, Lexington, VA 24450.**

Washington & Lee University is an Equal Opportunity Employer.

CONSERVATION BIOLOGIST—Tenure-track **ASSISTANT PROFESSOR** position available August 1995 to complement a program with eight faculty in Ecology, Behavior and Evolution. Candidates should have research experience in field studies and/or modeling in conservation biology. Postdoctoral experience preferred. Responsibilities include establishing an extramurally funded research program, advising Ph.D. and M.S. students, and teaching approximately one course and one seminar per semester. Send curriculum vitae, statement of research interests, three letters of reference and selected reprints by December 9, 1994, to: **Stephen H. Vessey, Search Committee Chair, Department of Biological Sciences, Bowling Green State University, Bowling Green, OH 43403-0212.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR-DIRECTOR OF BIOMECHANICS LABORATORY

Conduct research into biomechanical aspects of human musculoskeletal systems to develop new theories and test, prove, or modify known theories of life systems, utilizing principles of mechanical engineering and biological sciences. Plan and conduct biomechanical research with an emphasis on spinal biomechanics to assist in treatment of orthopaedic fracture and structural pathology. Develop advanced mathematical models to simulate and understand theories of fracture and fixations, bone mechanics and three dimensional bone and joint motion. Develop experimental models and sound scientific protocols including animal studies for collecting and analyzing data for orthopaedic applications. Use advanced statistical methods for protocol design and results analysis. Employ computer assisted engineering (CAE) methods including nonlinear finite element analysis to obtain clinically relevant biomechanical solutions. Develop and biomechanically evaluate mechanical instrumentation and orthopaedic fixation devices for surgery which assist medical or other health care personnel in observing, repairing or treating physical ailments or deformities. Apply basic concepts and mechanical testing schemes of biomaterials in the fixation design process. Prepare scientific papers and proposals for research funding. Ph.D. in mechanical or biomechanical engineering and one year of postdoctoral training in orthopaedic biomechanics required. Prior education, training, and/or experience must have included the job duties described above. 40+ hours per week; \$55,125 per year. Submit two copies of résumé, evidence of scientific publications, ability to obtain external research funding, and legal authorization to work in the United States which is not restricted to a particular employer, citing Number 940216 to: **Ms. Rose Saldivar, Jobs, Employment and Training Services, 201 East Washington Avenue, Room 211X, Madison, WI 53702.**

ASSISTANT/ASSOCIATE PROFESSOR IN PHARMACEUTICAL SCIENCES. The Washington State University College of Pharmacy, Department of Pharmaceutical Sciences has available an annual tenure-track appointment at the *Assistant/Associate Professor level, effective July 1, 1995. A Ph.D. and experience in the disciplines of pharmacology, toxicology or medicinal chemistry is required. Postdoctoral experience is desirable. The candidate should have a strong research background. A professional degree in Pharmacy is preferred. The position will involve teaching professional pharmacy students and teaching and directing graduate students in the Pharmacology/Toxicology graduate program. Development of an independent extramurally funded research program is expected. The department emphasizes research in cancer. Expertise in drug metabolism and regulation of cellular processes is desired. Applicants should indicate rank of application*, provide a curriculum vitae, the names and addresses of three references, and a statement of research interests and professional goals. Applications deadline is January 16, 1995, or until the position is filled. Contact: **Dr. Paul Sylvester, Ph.D., College of Pharmacy, Washington State University, Pullman, WA 99164-6510. Telephone: 509-335-6265.** *Washington State University is an Equal Opportunity/Affirmative Action Employer and Employer. Members of ethnic minorities, women, Vietnam-era or disabled veterans, persons of disability, and/or persons age 40 and over encouraged to apply.*

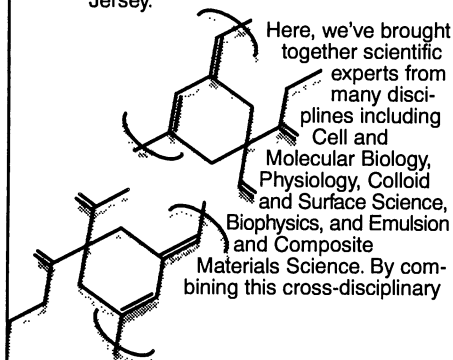
TENURE-TRACK FACULTY POSITION CELLULAR BIOLOGY and ANATOMY

This is a full-time tenure-track faculty position available 1 July 1995. The appointment will be at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level depending on qualifications. Applicants should have a Ph.D. and/or M.D., at least two years of postdoctoral experience and a record of excellent research accomplishments. We are seeking an individual with research experience in neuroscience, cell biology, or immunology to augment one of our current departmental programs in chemical-sensory systems, intestinal injury and repair, mucosal immunology, and the immunobiology of alcohol abuse. The successful candidate will be expected to establish and maintain active, externally funded research and to participate in teaching medical and graduate students. An attractive start-up package including new facilities and start-up funds will be available. Send curriculum vitae, and description of current and future research directions to: **Dr. Leonard L. Seelig, Department of Cellular Biology & Anatomy, LSU Medical Center, P.O. Box 33932, Shreveport, LA 71130.** *Louisiana State University Medical Center is an Affirmative Action Employer.*

Research Without Boundaries

That's what you'll find at Unilever Research. As one of the world's largest consumer products companies, we offer hundreds of brands and thousands of products that are sold in more than 100 countries. And the driving force behind them all is scientific research.

Since we introduced our first product in 1902, Unilever scientists have developed a constant flow of highly innovative products and technologies. Our international commitment to scientific breakthroughs in skin research has resulted in our world-class Skin Care Research Center in Edgewater, New Jersey.



knowledge, we're building upon our understanding of skin biology to create superior skin technologies that will continue to improve people's lives.

To expand our scientific frontiers even further, we have a current need for more individuals who thrive on scientific research, its challenges and its rewards. The following dynamic positions are now available:

PRINCIPAL MOLECULAR BIOLOGIST

Participating in research focusing on cell-cell communication using *in vitro* and *in vivo* systems, this position requires a PhD with 1-2 years of post-doctoral experience in Molecular Biology and conventional molecular techniques, especially mammalian transfection and transgenic technology. Utilization of retroviral vector technology is desirable. A publication record, strong oral/written communication skills and the ability to work independently in a team environment are also essential.

PRINCIPAL RESEARCH BIOCHEMIST

Interfacing with other skin research and clinical scientists, the successful candidate will study signal transduction and

transcriptional activation pathways. This position requires a PhD in Biochemistry; a strong understanding of general biochemistry, enzymology and transcriptional activation; and a working knowledge of signal transduction, immunochemistry, cell culture, assay development and protein purification.

In return for your expertise, we offer an excellent salary, a comprehensive flexible benefits package, retirement and savings plans, tuition reimbursement, and a progressive work environment that's conducive to challenge and career advancement. For consideration, send your resume including position of interest to:

Bruce Howell, Staffing & University Relations Coordinator, Dept. SC1094, Unilever Research U.S., 45 River Rd., Edgewater, NJ 07020. Equal opportunity employer.



Innovations Around the Globe

The Applied Biosystems Division of The Perkin-Elmer Corporation has an outstanding opportunity available in our PCR Customer Support Organization, based in Norwalk, Connecticut.

TECHNICAL SPECIALIST PCR Customer Support

In this key position you will be responsible for providing direct telephone applications support to Molecular Biologists, performing PCR-related and genetic analysis techniques; as well as developing technical documentation, product support literature and articles for publications. In addition, you will be required to travel approximately 10%, presenting technical seminars and workshops to customers and sales professionals.

Your background should include a minimum of a BS degree in Molecular Biology or Biochemistry (advanced degree preferred) and 1-3 years lab experience utilizing techniques for DNA isolation, manipulation, purification, amplification, and optical detection. Specific experience with DNA synthesis, modifying enzymes 4-color fluorescence sequence analysis, and cycle sequencing is preferred.

In exchange for your technical expertise, we offer a highly competitive salary package, an impressive roster of benefits, and decisive advancement potential. Interested candidates are requested to forward a resume and salary requirements in confidence to: Mr. J.T. Kulas, Manager, Human Resources, The Perkin-Elmer Corporation, 761 Main Avenue, Norwalk, CT 06859-0177.

We Are An Equal Opportunity Employer M/F/D/V.

PERKIN ELMER

SCIENTIFIC DIRECTOR

National Institute of Neurological Disorders and Stroke NIH

The National Institute of Neurological Disorders and Stroke (NINDS) seeks a Director for the Division of Intramural Research. The Scientific Director is responsible for planning, directing and coordinating basic and clinical research carried out by the 22 laboratories and branches in the Intramural Research Program which has an annual budget of approximately \$75 million and a scientific staff of approximately 400. Applicants must have a record of scientific excellence in neuroscience or related research, broad familiarity with contemporary research in neuroscience and neurology, and experience in scientific administration. Both M.D.s and PH.D.s are invited to apply. The position is a Civil Service position in the Senior Executive Service. Public Health Service Officers within the Commissioned Corps are also eligible.

Applicants should submit a current curriculum vitae and bibliography to Mr. Alfred L. Salas, National Institutes of Health, NINDS Personnel Office, Building 31, Room 8A23, 31 Center Dr., MSC 2540, Bethesda, Maryland 20893-2540. Applicants are required to submit an Application for Federal Employment (SF-171), available at all Federal Job Information Centers, or which can be obtained from Mr. Salas at (301-496-6334).

Applications must be postmarked by November 28, 1994.

Selection for this position will be based solely on merit with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, sexual orientation, physical or mental handicap, age, or membership or non-membership in an employee organization.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER AND ACTIVELY SOLICITS APPLICATIONS FROM UNDERREPRESENTED WOMEN, MINORITIES AND PERSONS WITH DISABILITIES

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY

The Department of Biology at the University of New Mexico is seeking applicants for a full-time, tenure-track position as **ASSISTANT PROFESSOR**, to begin August 14, 1995, in any area of Terrestrial Arthropod Ecology, including but not restricted to behavioral, community, geographical, physiological, or population ecology.

Minimum requirement: Ph.D. in related field. Preferred characteristics: Postdoctoral experience; potential for developing a vigorous, independent research program as reflected in publications and other scholarly activities; and commitment to excellent teaching at the beginning undergraduate through graduate levels.

Send a letter of application, curriculum vitae, representative reprints, statements of research and teaching interests, and at least three references to:

**Chair, Terrestrial Arthropod Ecologist
Search Committee**

**Department of Biology
The University of New Mexico
Albuquerque, NM 87131-1091**

Telephone: 505-277-3411; FAX: 505-277-0304

Complete applications must be received by December 15, 1994.

The University of New Mexico is an Equal Opportunity/Affirmative Action Employer and Educator.

RISK ASSESSMENT. Interdisciplinary environmental studies program offering M.A. degree seeks a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** beginning August 15, 1995. Ph.D. in the natural sciences, environmental engineering, or an equivalent subdiscipline. Responsibilities: teach risk assessment and environmental technology and policy, and supervise graduate research. Secondary areas: solid waste, air and water quality. Review of applications will begin December 5, 1994, and continue until position is filled.

Send letter of application describing teaching and research interests, curriculum vitae, and names of three references to: **Environmental Studies Search Committee, 322 Public Affairs Center, Sangamon State University, Springfield, IL 62794-9243.**

Sangamon State University is an Affirmative Action/Equal Opportunity Employer. Persons with disabilities, women, and minorities are encouraged to apply.

ASSISTANT PROFESSOR—BIOCHEMIST (NMR-Application)

The Department of Chemistry at the University of Wisconsin-Milwaukee is seeking applicants for a tenure-track position in biochemistry at the **ASSISTANT PROFESSOR** level. The applicant must show a strong and active interest in the application of NMR spectroscopy to biochemical problems. He/she must demonstrate outstanding teaching and research capabilities. The accepted candidate is expected to collaborate effectively with the Director of the NMR facility. The NMR facility includes 250 and 500 MHz multinuclear spectrometers with molecular graphics system.

To be considered, a curriculum vitae with a research plan and three letters of recommendation must be received by **Professor R. Vanselow, Chair, Department of Chemistry, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201 (FAX: 414-229-5530)** by December 19, 1994. The names of those applicants who have not requested that their identities be withheld and the names of all finalists will be released upon request. *The University of Wisconsin-Milwaukee is an Affirmative Action/Equal Opportunity Employer.*

KINESIOLOGY. Two tenure-track positions. Emphasis: 1) Neuromuscular control of movement, 2) Psychological aspects of physical activity participation. Outstanding candidates in other areas of Kinesiology will be considered (e.g., biophysics, endocrinology, epidemiology, immunology, physiology, vascular biology). Preference to **ASSISTANT PROFESSOR** level. Special class and uniquely qualified candidates will be considered at higher ranks. The University of Colorado at Boulder strongly supports the principle of diversity. We are particularly interested in receiving applications from women, ethnic minorities, disabled persons, veterans and veterans of the Vietnam era. Considerations will begin January 15, 1995 and continue until filled. For complete job description, contact **Search Committee Chair, Department of Kinesiology, Box 354, University of Colorado, Boulder, CO 80309. FAX: 303-492-4009 or sandra.sweney@colorado.edu.**

POSITIONS OPEN

IMMUNOLOGIST—ASSISTANT PROFESSOR

The Clinical Laboratory Sciences Program in the Department of Health Sciences at the University of Wisconsin-Milwaukee is seeking nominations and applications for a tenure-track position of immunologist. The appropriate candidate will be expected to develop an independent research program and have responsibility for teaching undergraduate and graduate courses in clinical immunology. Applicants must have a Ph.D. in immunology or related science area with an emphasis in clinical immunology. Postdoctoral experience preferred but not required. Application deadline is December 15, 1994. Names of applicants who have not requested that their names be withheld will be released upon request. Send curriculum vitae and three letters of reference to: **Dr. Randall S. Lambrecht, Chair, Search and Screen Committee, University of Wisconsin-Milwaukee, Department of Health Sciences, P.O. Box 413, Milwaukee, WI 53201. Affirmative Action/Equal Opportunity Employer.**

The Division of Endocrinology and Metabolism and the Department of Biological Chemistry at the University of California, Irvine (UCI), invite applications and nominations for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Candidates should have expertise in molecular and cellular approaches to the study of the endocrine system. Applicants must have an M.D. degree and either a Ph.D. degree or extensive research training. A strong record of research accomplishments with the potential to develop an independent research program is highly desirable. This joint recruitment effort reflects a commitment to excellence in molecular biochemistry and endocrinology and to promoting a fertile environment for interactive research at UCI and affiliated institutions.

Interested applicants should submit their curriculum vitae and a statement of research interest, and arrange for at least three references to be sent to: **Dr. Murray Korc, Chief, Division of Endocrinology and Metabolism, University of California at Irvine, Irvine, CA 92717-4086. UCI is an Affirmative Action/Equal Opportunity Employer.**

ORNITHOLOGIST/CURATOR

The Florida Museum of Natural History, at the University of Florida, is inviting applications for a tenure-track position as **ASSISTANT CURATOR** in Ornithology. The successful candidate is expected to develop an active research program in ornithology and to curate and develop the museum collection. The candidate must have a strong commitment to undergraduate and graduate education and will be encouraged to interact in allied academic departments. Position available 11 August 1995. Minimum qualifications: Ph.D. and strong research and collections-oriented interests. Salary commensurate with experience. Send letter of application, curriculum vitae with statements of research interests, collection and teaching experience, and reprints of three selected publications no later than 20 January 1995 to: **Dr. John Eisenberg, Department of Natural Sciences, Florida Museum of Natural History, University of Florida, P.O. Box 117800, Gainesville, FL 32611-7800. The University of Florida is an Equal Opportunity/Affirmative Action Employer.** The selection process will be conducted under the provisions of Florida's "Government in the Sunshine" and Public Records laws.

ASSISTANT PROFESSOR—SOIL AND WATER MANAGEMENT

Tenure-track, joint Extension and research, **ENTRY-LEVEL POSITION** at New Mexico State University's Agriculture Science Center at Artesia, New Mexico. Provide technical expertise in soil fertility and water quality to local producers and Extension agents. Conduct research on the utilization of animal wastes in crop production, the impact of agricultural practices on water quality, and the management of saline soils. Obtain external funding and publish in peer-reviewed journals. Ph.D. in soil science, agronomy, or related discipline. Experience in production agriculture and a background in applied research are preferred. Experience in Cooperative Extension desirable. Submit letter of application, résumé, official transcripts, and three references by December 1, 1994, to: **Dr. D. Heil, Department of Agronomy and Horticulture, Box 30003/Department 3Q, New Mexico State University, Las Cruces, NM 88003. New Mexico State University is an Equal Opportunity/Affirmative Action Employer. Offer of employment contingent upon verification of individual's eligibility for employment in the United States.**

POSITIONS OPEN

MOLECULAR AND CELLULAR PHYSIOLOGIST

The Department of Molecular and Cellular Physiology at the University of Cincinnati College of Medicine is seeking applicants for a full-time, tenure-track position at the **ASSOCIATE** or **FULL PROFESSOR** level. Applicants should have a Ph.D., M.D., or equivalent and have established a successful research program. Qualified candidates must have a strong record of accomplishments in cell regulation, such as receptor function, second messenger generation, regulatory protein-protein interactions, covalent modification of proteins or regulation of intracellular ions, target proteins and gene expression. The position should strengthen the Vascular Biology Division of the College's Cardiovascular Research Institute. Excellent laboratory space and core facilities are available in molecular biology, murine physiology and transgenic mouse gene targeting. Applications are requested by February 1, 1995, but will be considered until the position is filled. Applicants should submit curriculum vitae, a description of research plans, and the names of three references to: **Dr. Richard J. Paul, Chair, Search Committee, c/o Rhonda Hentz, Department of Molecular and Cellular Physiology, College of Medicine, University of Cincinnati, P.O. Box 670576, Cincinnati, OH 45267-0576.**

The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer; minorities, women, disabled persons, Vietnam-era and disabled veterans are encouraged to apply.

FACULTY POSITION IN TOXICOLOGY. Candidates should meet the following criteria: earned doctorate in toxicology or allied biomedical science; at least one year of relevant postdoctoral experience; peer-reviewed publications reflecting high-quality research in toxicology employing modern methods (e.g., molecular biology, cell culture, and/or noninvasive imaging); ability to garner extramural support for research; capacity for excellence in didactic teaching and individual mentoring of graduate students; potential for collaborations with other faculty in toxicology, occupational health, environmental health sciences, and/or biomedical sciences related to toxicology. Preferred rank is **ASSISTANT PROFESSOR**, but exceptional candidates may be considered for higher ranks. Targeted fields are neurotoxicology or reproductive and developmental toxicology, but applications are also invited from other specialties. Women and representatives of disadvantaged minority groups are especially encouraged to apply. Send curriculum vitae with names of three references to: **Dr. R. J. Richardson, Chair, Toxicology Faculty Search Committee, The University of Michigan, 109 Observatory, Ann Arbor, MI 48109-2029. A Nondiscriminatory, Affirmative Action Employer.**

MOLECULAR BIOLOGIST. Tenure-track position at the **ASSISTANT PROFESSOR** level. Responsibilities include teaching in the introductory biology course and molecular biology, both in the core curriculum and at an advanced undergraduate level. Excellence in teaching and development of an active research program involving undergraduate participation are essential.

Send statement of interest, curriculum vitae, a list of relevant courses taught, other supporting material, and arrange to have three letters of recommendation sent to: **Dr. Susan Smith, Department of Biological Sciences, Mount Holyoke College, South Hadley, MA 01075. FAX: 413-538-2239, Email: ssmith@MHC.mtholyoke.edu.** Review of applications will begin on November 21, 1994, and continue until the position is filled.

Mount Holyoke College is committed to fostering cultural diversity and multicultural awareness in its faculty, students, and staff, and is an Affirmative Action, Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

MOLECULAR GENETICIST: Tenure-track, **ASSISTANT PROFESSOR** with broad biological background, to teach genetics, molecular biology, parts of biotechnology certification program, advanced specialty courses, and rotate into general education and/or core courses. Preferred specializations: developmental, microbial or botanical genetics. Must develop research program with undergraduate and graduate M.A. candidates. Ph.D. required; recent research experience preferred. Send curriculum vitae, transcripts, at least three letters of recommendation to: **Dr. Ronald L. Evans, Chair, Department of Biology, California State University, Fresno, Fresno, CA 93740-0073. Closing date: December 15, 1994. Equal Opportunity/Affirmative Action Employer.**

THE 1995 LOUISA GROSS HORWITZ PRIZE

The Louisa Gross Horwitz Prize was established under the will of the late S. Gross Horwitz through a bequest to Columbia University, and is named to honor the donor's mother. Louisa Gross Horwitz was the daughter of Dr. Samuel David Gross (1805-1889), a prominent surgeon of Philadelphia, and author of the outstanding "Systems of Surgery," who served as president of the American Medical Association.

Each year, since its inception in 1967, Columbia University has awarded the Louisa Gross Horwitz Prize for outstanding basic research in the fields of Biology or Biochemistry. The purpose of this award is to honor a scientific investigator, or group of investigators, whose contributions to knowledge in either of these fields is deemed worthy of special recognition.



The prize consists of an honorarium and a citation which are awarded at a special presentation event. Unless otherwise recommended by the Prize Committee, the prize is awarded annually. The 1994 awardees were Philippa Marrack, Ph.D., and John W. Kappler, Ph.D., jointly Professors of Microbiology and Immunology at the University of Colorado Health Sciences Center, and Investigators at the Howard Hughes Medical Institute at Denver.

QUALIFICATIONS FOR THE AWARD

The Prize Committee recognizes no geographical limitations. The prize may be awarded to an individual or a group. When the prize is awarded to a group, the honorarium will be divided among the recipients, but each member will receive a citation. Preference will be given to work done in the recent past.

Prospective recipients should be nominated to the Chairman of the Louisa Gross Horwitz Prize Committee, Dr. Steven Siegelbaum. Nomination letters should include:

1. A summary, preferably less than 500 words, of the research on which this nomination is based.
2. A summary, preferably less than 500 words, of the significance of this research in the fields of biology or biochemistry.
3. A brief biographical sketch of the nominee, including positions held and awards received by the nominee.
4. A listing of up to ten of the nominee's most significant publications relating to the research noted under item 1.
5. A copy of the nominee's curriculum vitae.

Send to: Dr. Steven Siegelbaum, Chairman of the Louisa Gross Horwitz Prize Committee, Office of the Vice President for Health Sciences and Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, New York, New York 10032.

Deadline for receipt of nominations is January 6, 1995.

Director Trudeau Institute

The Trudeau Institute invites applications for the position of Director. The Institute, located in Saranac Lake, N.Y. is a privately endowed laboratory engaged in basic research in the field of Immunobiology at molecular, cellular, and physiological levels, with special emphasis on the responses of experimental animals to a variety of antigenic stimuli including those provided by tumors, allografts, and pathogenic microorganisms. Total research space in the Institute amounts to 10,000 square feet. In addition there are several rooms equipped with micro isolator housing for small animals, a BioSafety Level 3 facility, and a 10,000 sq. ft. animal facility that breeds mice under specific pathogen free conditions. Candidates should have attained national and international stature 'in the field of experimental immunology, and should be actively involved in a full-time program of basic research. Inquiries and applications, which should include a current curriculum vitae, should be sent to:

The Search Committee
Trudeau Institute
P. O. Box 59
Saranac Lake, N.Y. 12983



DEPARTMENT OF MOLECULAR MICROBIOLOGY AND IMMUNOLOGY BROWN UNIVERSITY ANIMAL VIROLOGIST

A full-time faculty position is open for an Assistant Professor (tenure-track) with research interests in animal virology, particularly retroviruses, and/or mechanisms of viral pathogenesis. Final selection will be for an individual of outstanding ability. Applicants should have a doctoral degree and at least two years postdoctoral experience. They must show evidence of their ability to establish and maintain a productive, independent, externally-funded research program and must demonstrate potential for excellence in teaching virology. Opportunities exist to interact with members of Graduate Programs in (1) Molecular Biology, Cell Biology, and Biochemistry and (2) Pathobiology. Teaching responsibilities include participation in the basic science microbiology course for medical students, as well as an upper level course in virology. Academic advising of undergraduate and graduate students and service to the Division of Biology and Medicine are responsibilities assumed by all faculty members of the Department. The appointment will begin on or after July 1, 1995. Applications received by December 31, 1994 will receive full consideration until the position is filled. Applicants should submit a résumé including research and teaching experience, publications, and future research plans; enclose representative reprints; and have three letters of recommendation sent to Dr. Paul M. Knopf, Chairman, Department of Molecular Microbiology and Immunology, Box G-B6, Division of Biology and Medicine, Brown University, Providence, RI 02912.

*We encourage qualified women and minority candidates.
Brown University is an equal opportunity/affirmative action employer.*

Molecular Diagnostics

Sr. Research Scientist

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

The successful candidate will have an MS or PhD in Molecular Biology or Biochemistry with 3+ years experience in nucleic acid technology and DNA amplification methodology. Experience in product development and strong writing skills desired.

For consideration, please send your resume to: Bio-Rad Laboratories, 2000 Alfred Nobel Dr., Dept. 507, Hercules, CA 94547. EOE MFDV.

BIO-RAD

Bio-Rad Laboratories

POSITIONS OPEN

The Center for Advanced Medical Technology at San Francisco State University invites applications for a faculty position in Clinical Science at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The candidate should have a relevant doctoral degree and teaching and research interests related to clinical chemistry. The successful applicant would be expected to develop an active research program, teach six units of graduate courses per semester, contribute lectures to the medical technology training program and serve on academic committees. Interested parties should submit a curriculum vitae, three letters of recommendation and a statement of research and teaching interests by December 15, 1994, to: **Dr. Joseph Romeo, Chair, Clinical Science Hiring Committee, Center for Advanced Medical Technology, San Francisco State University, 1600 Holloway Avenue, San Francisco, CA 94132.** *San Francisco State University is an Equal Opportunity/Affirmative Action Employer.*

STANFORD UNIVERSITY—ECOLOGIST/ EVOLUTIONARY BIOLOGIST

The Department of Biological Sciences seeks an Ecologist or Evolutionary Biologist. This tenure-track position will be filled at the **ASSISTANT PROFESSOR** level.

Applications from women and members of minority groups are strongly encouraged. Applicants for this position should send a letter of application, statements of research interests and teaching experience, curriculum vitae, two papers or manuscripts, and names and addresses of three referees directly to:

**Ecology/Evolution Search Committee
Department of Biological Sciences
Gilbert Room 109
Stanford University
Stanford, CA 94305-5020**

The closing date for these applications is December 1, 1994.

Savannah State College, a unit of the University System of Georgia, seeks a full-time Faculty Position in Biology as an **ASSISTANT/ASSOCIATE PROFESSOR**, tenure-track to begin in January 1995. Earned Ph.D. degree in the area of developmental biology with expertise/experience in the area of cellular and molecular biology/biotechnology. Teach courses in general biology, developmental biology, genetic engineering and coordinate certificate program in biotechnology and carry out funded research. Submit curriculum vitae, copies of transcripts, statement of teaching philosophy and research interest with three (3) letters of recommendation to: **Director, Office of Personnel, Savannah State College, Savannah, GA 31404** by November 14, 1994.

An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN GENETICS—Duke University Medical Center. Applications are invited for a tenure-track position in the Department of Genetics at Duke University Medical Center. Although we anticipate filling this position at the **ASSISTANT PROFESSOR** level, we will consider individuals for any level appointment. We are particularly interested in those individuals that are engaged to work utilizing mammalian systems or focusing on the genetics of human disease. The facilities and environment of the Department of Genetics are excellent. Applications should include a curriculum vitae, a brief description of research accomplishments, a brief description of plans for future research, and the names of three individuals that can serve as referees. Address applications to: **Genetics Search Committee, Department of Genetics, Duke University Medical Center, Box 3054, Durham, NC 27710.** *Duke University is an Equal Opportunity/Affirmative Action Employer.*

Morris College, a private four year Liberal Arts College in Sumter, South Carolina is seeking to fill the following positions:

ASSISTANT/ASSOCIATE PROFESSOR OF BIOLOGY: To teach three (12 credit hours) courses each semester in Zoology, Vertebrate Developmental Biology, Genetics and Ecology. Participate in registration, student advising, committee assignments and other duties assigned. Ph.D. in Biology required. (Effective spring semester 1995–January 2, 1995)

Submit letter of application, three letters of recommendation and official academic transcripts to: **Director of Personnel, Morris College, 100 West College Street, Sumter, S.C. 29150.** Deadline for accepting applications is November 15, 1994. *An Equal Opportunity Employer.*

POSITIONS OPEN

GENETICS—Middlebury College. The Department of Biology invites applications for an entry-level tenure-track position, beginning September 1995, in the area of eukaryotic developmental molecular genetics. Candidates should be able to teach courses in the area for majors (introductory and advanced) and for the general college community and to supervise undergraduate research in molecular and developmental genetics. Appointment will be made at the rank of **ASSISTANT PROFESSOR** (Ph.D.). Candidates should have a broad background in biology and should provide evidence of their commitment to excellent teaching and of their scholarly potential. Send letter of application, curriculum vitae, statements of teaching and research interests, undergraduate and graduate transcripts, a sample of scholarly work and at least three current letters of recommendation to: **Professor George Saul, Genetics Search Committee, Department of Biology, Middlebury College, Middlebury, VT 05753.** Telephone: 802-388-3711 x5432; FAX: 802-388-0739. Review of applications will begin 28 November 1994. *Middlebury College is an Equal Opportunity Employer, and it encourages applications from women and members of minority groups.*

MICROBIOLOGIST. Southern Oregon State College seeks applicants for an **ASSISTANT PROFESSOR** to teach nursing microbiology, microbiology for majors and immunology, and to participate in introductory biology or interdisciplinary general education courses starting September 1995. Appointment: a one-year renewable contract with shift to tenure-track possible. Ph.D. training in molecular biology and a strong interest in interdisciplinary teaching required. The college focuses on undergraduate education and encourages research involving undergraduates. Send letter of application, curriculum vitae, statement of teaching experience and approach to teaching microbiology, scholarly plans, list of pertinent courses taken, and names, addresses and telephone numbers of three references to: **Microbiology Search, Department of Biology, Southern Oregon State College, Ashland, OR 97520.** Preference given to applications received by December 15, 1994. *Southern Oregon State College is an Affirmative Action/Equal Opportunity Employer committed to development of an inclusive, multicultural community.*

ENTOMOLOGIST/INSECT BEHAVIORIST

The Department of Entomology, University of California, Riverside, is recruiting for a tenured position in entomology to fill the **ALFRED M. BOYCE ENDOWED CHAIR** in Entomology, at the rank of Professor/Entomologist, salary commensurate with experience. Position is 11-months, 75% research and 25% teaching, available July 1, 1995. Qualifications: Must have a Ph.D. and distinguished record of scholarly research, scientific publications, professional activity and superior record of securing grants. Excellence in teaching and in training graduate students is essential. Responsibilities: Plan and implement interdisciplinary research programs in insect behavior and develop novel approaches to managing pest insects or disease vectors; instruction and training of undergraduate and graduate students; and supervise Staff Research Associate(s) and other technical staff. Send curriculum vitae, statement of current and future research interests, bibliography, selected reprints, manuscripts in press and names and addresses of five references by January 16, 1995, to: **Mir S. Mulla, Chair, Search Committee, Department of Entomology, University of California, Riverside, CA 92521.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION. Available immediately to study the structure and function of a membrane glycoprotein of lung epithelial cells. Basic techniques in protein biochemistry required and experience in protein phosphorylation preferred. Send a résumé and names of three references to: **K. C. Kim, Ph.D., Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, 20 North Pine Street, Baltimore, MD 21201.** FAX: 410-706-2973. *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION

is immediately available to study Ca^{2+} and K^{+} channel regulation by G-proteins and cyclic nucleotides in freshly dispersed and cultured vascular smooth muscle cells using whole cell, perforated patch, and single channel methods. Previous experience is desirable. Send description of interests and experience, curriculum vitae, and list of three references to: **Robert H. Cox, Ph.D., Graduate Hospital, One Graduate Plaza, Philadelphia, PA 19146.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

SENIOR COGNITIVE PSYCHOLOGIST POSITION

COGNITIVE PSYCHOLOGIST. This Department of Psychology at the University of California, Riverside, invites applications for a position at the **FULL PROFESSOR** rank in cognitive psychology to begin July 1, 1995. Outstanding candidates at the advanced Associate Professor level are also strongly encouraged to apply. A senior Professor, with a commitment to excellence in teaching, a nationally recognized research program, and demonstrated ability to obtain extramural funding is preferred. We seek applicants with an outstanding research program in any of the following areas of cognitive psychology: attention, human performance, computational modeling, cognitive neuroscience, memory, psycholinguistics, decision-making and perception.

Riverside is the fastest growing of the University of California campuses, and the Department of Psychology is expected to grow substantially during the next 15 years from its present size of 19 faculty. Interdisciplinary graduate and undergraduate programs are being developed in Cognitive Science. The successful candidate will help direct the growth of the department and the cognitive area.

Review of applications will begin December 15, 1994. Applications received after this date will be considered only if an appointment is not made from the original pool. Interested candidates should send a curriculum vitae and three letters of recommendation to: **Chair, Cognitive Search Committee, Box D, Department of Psychology, University of California-Riverside, Riverside, CA 92521.** *The University of California, Riverside is an Affirmative Action/Equal Opportunity Employer.*

CHAIRPERSON: DEPARTMENT OF BIOSTATISTICS

UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY

The University of Rochester School of Medicine and Dentistry is soliciting nominations and applications for the position of **CHAIRPERSON**, Department of Biostatistics. The department collaborates with and provides consultation to researchers in the University. Faculty are active in basic science and clinical projects in the Cancer Center, the Clinical Research Center, and in Environmental Medicine, Neurology, Preventive Medicine, Cardiology, Infectious Disease, Dental Research, Neonatology and Psychiatry. Faculty also have independent research programs, and many have their own research grants. The department participates in education of medical students, Ph.D. and M.D./Ph.D. students, and has two predoctoral and postdoctoral training programs supported by the National Institutes of Health. The departmental collaborates closely with the Department of Statistics, and most faculty hold joint appointments. Candidates for the position should have a Ph.D. or equivalent degree, an internationally regarded research program, strong evidence of original scholarship, leadership ability, and experience in a department that interfaces extensively with other University units. Applications are sought from outstanding biostatisticians whose abilities will complement and enhance department strengths. Interested persons may submit a letter of application, a curriculum vitae with summary of current research interests, and the names and addresses of three references to: **Dr. William H. Bowen, Chair of Search Committee, University of Rochester, 601 Elmwood Avenue, Box 611, Rochester, NY 14642-8611.** *The University of Rochester is an Affirmative Action/Equal Opportunity Employer. Women and underrepresented minorities are particularly encouraged to apply.*

IMMUNOLOGY/MICROBIOLOGY

The Department of Biology at Adelphi University seeks to fill a tenure-track position in immunology/microbiology at the **ASSISTANT** (or **EARLY ASSOCIATE**) level. The position begins September 1, 1995. Candidates should demonstrate outstanding scholarship and a strong record of achievement and show potential for development of a strong research laboratory using state-of-the-art techniques in the field. Teaching responsibilities will include courses at the undergraduate and graduate (M.S.) levels. Applicants should submit curriculum vitae, bibliography, description of teaching and research goals, and three letters of reference to: **Chair, Immunology/Microbiology Search Committee, Department of Biology, Adelphi University, Garden City, NY 11530,** no later than January 1, 1995. *Adelphi University is an Equal Opportunity/Affirmative Action Employer/Male/Female.*

**National Center for Human Genome Research
National Institutes of Health
Public Health Service
Department of Health and Human Services**

POSITION AVAILABLE

Assistant Director for Policy Coordination

The National Center for Human Genome Research (NCHGR) seeks applications for the position of Assistant Director for Policy Coordination. The successful candidate for this position will coordinate NCHGR activities related to planning, evaluation, legislation, communications, and policy analysis of the ethical, legal and social implications of human genome research. The Assistant Director for Policy Coordination should hold an advanced degree in a scientific discipline relevant to the human genome project, be familiar with the policy issues raised by the project, and have experience working with policy analysis and coordination in the Federal government. Salary is dependent on experience. Representatives of ethnic or racial minority groups are particularly encouraged to apply.

APPLICATIONS ARE DUE DECEMBER 1, 1994

Please submit resume/curriculum vitae/or SF 171 (Application for Federal Employment) and three letters of reference to Ms. Mary Glynn, Personnel Officer, National Center for Human Genome Research, Building 31, Room 3B31, National Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20892.

U.S. Citizenship required

NIH IS AN EQUAL OPPORTUNITY EMPLOYER



Chair of Microbiology

The School of Biological Sciences intends to make an additional senior appointment to strengthen and develop its research and teaching in microbiology. We wish to appoint someone with an excellent research record in any field of eukaryotic or prokaryotic microbiology. Professor K. Gull, Director of the Research and Graduate School (Tel: 061 275 5108; Fax 061 275 5082; E-Mail K.Gull@man.ac.uk) would be happy to discuss this post informally with any potential applicants. Further particulars are available from The Director of Personnel, Academic Staffing Office, The University of Manchester, Manchester, M13 9PL (Tel: 061 275 2028) to whom applications including cv and names and addresses of three referees should be sent by November 18th 1994. Please quote Ref. 352/94.

As an Equal Opportunities Employer, the University welcomes applications from suitably qualified people from all sections of the community regardless of race, religion, gender or disability.



MEDICAL ONCOLOGY AND HEMATOLOGY FACULTY POSITIONS: M.D.'S WITH BASIC RESEARCH INTERESTS

Assistant / Associate / Full Professors:

Medical Oncologists and Hematologists (M.D. or M.D./Ph.D.) with primary interests in basic research. All applicants must be ABIM board-certified or board-eligible in Medical Oncology or Hematology by the time of appointment. Among the areas of basic research interest in which we particularly wish to recruit faculty are growth factors, growth factor receptors, signal transduction, hematopoiesis, gene regulation, gene therapy, cancer-related pharmacology, and molecular carcinogenesis. These positions may be tenure earning.

Send curriculum vitae, a 1-2 page statement of major academic interests, current and pending funding, and a list of at least 3 academicians who would be willing to provide references to Kenneth S. Zuckerman, M.D., Director, Division of Medical Oncology and Hematology, University of South Florida and H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, FL 33612. Applications will remain confidential until after individual circumstances are discussed with applicants. Applicants who need accommodations to participate in the selection process must notify Jody Swanson at (813) 975-7894 at least 5 working days in advance. All applications must be postmarked by December 19, 1994.



**H. LEE MOFFITT CANCER CENTER
& RESEARCH INSTITUTE**
University of South Florida College of Medicine

The H. Lee Moffitt Cancer Center and Research Institute is an Equal Opportunity Employer
The University of South Florida is an
Equal Opportunity/Equal Access/Affirmative Action Employer

POSITIONS OPEN

The Department of Chemistry and Biochemistry of the University of California, Los Angeles, is seeking to fill the **SAUL WINSTEIN MEMORIAL CHAIR** in organic chemistry. The occupant of this chair will hold a state-funded regular faculty position; the income from the endowment is available to the holder as an unrestricted fund for purposes of research and teaching. This chair may be filled either by a very distinguished person, either a new senior appointment at the **FULL PROFESSOR** level or from the present faculty; a search committee has been appointed to recommend the most outstanding candidate. Candidates are sought who give evidence of unusual distinction in scholarship and teaching, a truly exceptional record of research accomplishment, and demonstrated ability to obtain research funding in a competitive environment. Applications should be completed by 2 January 1995 and directed to: **Chair, Winstein Chair Search Committee, Department of Chemistry and Biochemistry, University of California, Los Angeles, CA 90024-1569.** The University of California is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.

PHYSIOLOGIST: The Biology department at Birmingham-Southern College invites applications for a two, possibly three year appointment at the **ASSISTANT PROFESSOR** rank. A comparative or ecological physiologist is sought to teach courses as needed in the areas of introductory organismal biology, physiology, an advanced course in area of expertise, and a non-majors course. Ph.D. required. Commitment to undergraduate research desirable. Send curriculum vitae, statement of teaching/research interests, graduate transcripts, and three letters of recommendation to: **Dr. Jeannette Runquist, BSC A-22, Birmingham-Southern College, Birmingham, AL 35254.** Closing date: December 1, 1994. *Birmingham-Southern College is an Equal Opportunity Employer.*

ASSISTANT PROFESSOR—BIOLOGY. Tenure-track, beginning August 1995. Teach biology teaching methods/supervision, non-majors ecology/conservation, and general biology. Research with undergraduates expected. Doctorate required; Ph.D. preferred. Middle/secondary teaching experience and interest in ethnobiology desirable. Applications must be received by January 9, 1995. Send application letter stating teaching/research interests, curriculum vitae, undergraduate/graduate transcripts, up to three publications, and three letters of reference to: **Biologist Search, Department of Biology, University of Wisconsin-Eau Claire, Eau Claire, WI 54702-4004.** Internet: BIOLSRCH@UWEC.EDU. Telephone: 715-836-4166; FAX: 715-836-5089. *An Equal Opportunity/Affirmative Action Employer. Applications from women and persons of color are particularly welcomed.*

ASSISTANT PROFESSOR VERTEBRATE BIOLOGIST

The Department of Biology of Dickinson College seeks applicants for a **TENURE-TRACK POSITION** in Vertebrate Biology, with background in physiology and comparative anatomy. Teaching responsibilities include courses in these areas as well as participation in introductory courses. The successful candidate will have access to institutional start-up and research funds and will be expected to develop an active research program involving undergraduates. Applications should be received by January 13, 1995. Send curriculum vitae, statement of research and teaching interests, transcripts, and three letters of recommendation to: **Dr. Thomas S. Brennan, Department of Biology, Dickinson College, Carlisle, PA 17013-2896.** Dickinson is a highly selective liberal arts college with an emphasis on innovative science education. *Dickinson College is an Affirmative Action/Equal Opportunity Employer.*

Eastern Mennonite University invites applicants for three **FACULTY POSITIONS** beginning fall 1995: (1) Biology with teaching in microbiology and anatomy; (2) International Agriculture with teaching in agricultural sciences and general biology; and (3) Chemistry with teaching in general chemistry and physical or analytical (preferred) chemistry. Research programs involving undergraduate students are encouraged. Applicants wishing to teach science in a small Christian liberal arts university and who are committed to Anabaptist/Mennonite values are encouraged to send by November 18, 1994, a letter of application/curriculum vitae to: **Dr. Lee F. Snyder, Academic Dean, Eastern Mennonite University, Harrisonburg, Virginia 22801.**

POSITIONS OPEN

MICROBIAL ECOLOGY/MICROBIAL GENETICS

The Department of Biology, University of Southwestern Louisiana invites applications for two **TENURE-TRACK POSITIONS** in support of the doctoral program in Environmental and Evolutionary Biology. These positions are for research faculty and offer a competitive salary. Faculty are expected to develop active research programs, seek extramural funding and participate in undergraduate and graduate education. The Biology Department consists of 30 professorial faculty and more than 60 graduate students, with research interests ranging from molecular to ecosystem studies. The University of Southwestern Louisiana has an exceptionally well-equipped Electron Microscopy Center and Center for Advanced Computer Studies. Other resources include the Primate Research Center, Center for Crustacean Research, Center for Molecular Evolution, Louisiana Universities Marine Consortium (LUMCON) Marine Laboratory and research vessels, a major research center for the National Biological Survey and the National Marine Fisheries Service's Estuarine Habitats and Coastal Fisheries Research Center.

Applicants should submit curriculum vitae, selected reprints, a concise statement of research goals, and names, addresses and telephone numbers of three referees. Review of applications will begin 17 January 1995 and continue until positions are filled. Direct application to: **Faculty Development Search Committee, Department of Biology, University of Southwestern Louisiana, Lafayette, LA 70504-2451.** *Affirmative Action/Equal Opportunity Employer.*

TENURE-TRACK POSITION INTERDISCIPLINARY LAW AND SCIENCE

Vermont Law School invites applications for a tenure-track **FACULTY POSITION** to teach interdisciplinary law and science courses in environmental protection, public health, and related fields. Applicants must have a Ph.D., or the equivalent, in one of the physical or natural sciences, as well as a J.D., or substantial experience with the legal process. The position provides the opportunity to work with one of the premier environmental programs in the country and to develop innovative approaches to legal education. Vermont Law School encourages applications from women and people of color. Contact: **Professor Patrick Parenteau, Chair, Appointments Committee, Vermont Law School, P.O. Box 96, Chelsea Street, South Royalton, VT 05068.** Telephone: 802-763-8303, extension 2342, Environmental Law Center. *Vermont Law School is an Equal Opportunity/Affirmative Action Employer.*

MOLECULAR BIOLOGIST/CYTOGENETICIST PROSTATE CANCER PROGRAM

Applications for a **FACULTY POSITION** are requested from a Ph.D. or M.D./Ph.D. with experience in molecular biological/cytogenetic techniques. The position will be to participate in an established ongoing research program in the Department of Pathology and involving the study of oncogenes, suppressor genes and the cytogenetics of human prostate cancer. The position at Wayne State University will be commensurate with the successful applicant's background and qualifications. Please send curriculum vitae and appropriate references to: **David Grignon, M.D., Department of Pathology, Harper Hospital, 3990 John R, Detroit, MI 48201.**

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is immediately available for a NIH-funded project to contribute to the development of murine gene-targeted knockouts for the study of the function of T cell surface molecules *in vivo* (*J. Exp. Med.*, 180:693; *PNAS*, 91:2344). Qualified candidates should have extensive experience with molecular biology techniques and interest in applying them to immune cell function. The individual will be a Henry M. Jackson Foundation employee working in the laboratory of **Dr. William C. Gause**, Department of Microbiology and Immunology, Uniformed Services University of the Health Sciences, Bethesda, MD. Please send curriculum vitae, summary of research interests and three letters of reference to: **Human Resources, Attn: Position No. PL2940307, The Henry M. Jackson Foundation for the Advancement of Military Medicine, 1401 Rockville Pike, Suite 600, Rockville, MD 20852.** *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ANATOMY AND CELL BIOLOGY FACULTY POSITION IN DEVELOPMENTAL BIOLOGY

The Department of Anatomy and Cell Biology invites applications for a tenured or tenure-track position beginning July 1, 1995. Candidates should have a Ph.D., M.D. or equivalent degree, and have demonstrated ability to conduct independent research and attract extramural funding. The department is seeking a Developmental Biologist with a strong record of achievement in molecular and/or cellular biology. Major research programs in the department are related to neurobiology. Teaching duties will include human embryology in the gross anatomy course for first year Medical Students and participation in the department's graduate program. Rank and salary will be commensurate with qualifications. Applicants should submit a curriculum vitae, a brief statement of research interests, representative reprints, and names of three references to: **Dr. George D. Pappas, Search Committee, Department of Anatomy and Cell Biology, University of Illinois, College of Medicine at Chicago, 808 South Wood Street (M/C 512), Chicago, IL 60612-7308.**

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

FACULTY POSITION DEPARTMENT OF CELL RESEARCH AND IMMUNOLOGY TEL AVIV UNIVERSITY

Applications are invited for a **TENURE-TRACK POSITION** in the Department of Cell Research and Immunology. Applicants must have a doctoral degree, significant postdoctoral research experience and demonstrated ability to be productive in an academic setting.

The focus of the department is research on the biology of the eukaryotic cell. Numerous aspects of molecular cell biology and virology are studied with special emphasis on the malignant state. Particular interest exists in the areas of molecular genetics, biorecognition, growth control and immunology. We are seeking outstanding candidates who have expertise in cellular immunology, developmental biology, or in other areas related to our department's interest. The successful applicant will be expected to develop a strong independent research program with external funding as well as significantly contribute to the teaching programs of the department.

Candidates should submit a letter of application, a brief statement of research objectives, curriculum vitae and list of publications and at least three letters of recommendation to: **Dr. Sara Lavi, Head, Department of Cell Research and Immunology, George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv, Israel.** FAX: 972-3-6422046.

EXECUTIVE VICE CHANCELLOR THE UNIVERSITY OF KANSAS MEDICAL CENTER

The University of Kansas seeks applications or nominations for the position of **EXECUTIVE VICE CHANCELLOR (EVC)** of the Medical Center campus. The EVC is the principal administrative and academic officer of the Medical Center campus with direct responsibilities to the Chancellor of the University. The Medical Center campus includes the School of Medicine (Kansas City and Wichita), School of Nursing, School of Allied Health, Graduate Studies, and the University-owned hospital, providing both acute and chronic care and outpatient services. The Medical Center serves the needs of the metropolitan Kansas City area, the State of Kansas and the region. The EVC is expected to lead the Medical Center's teaching, patient care, and research programs and provide vision and innovation. Qualifications include an M.D. degree preferred or a Ph.D. degree in health care fields. The successful candidate must have extensive administrative experience at a university medical center and teaching hospital as a dean or vice chancellor or their equivalent.

The review of applications and nominations will begin on December 1, 1994.

Nominations, applications and inquiries should be directed to: **Daniel Hollander, M.D., Chair-Search Committee for Executive Vice Chancellor, c/o Office of the Chancellor, 230 Strong Hall, The University of Kansas, Lawrence, KS 66045.**

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

SCIENTISTS Lung Gene Transfer

The Lung Gene Therapy Program at The Hospital for Sick Children (HSC) is looking for individuals to develop independent research programs investigating gene delivery (liposome/plasmid or viral) to, and gene expression within, the lung. Interactions with strongly established groups in Lung Biology and Genetics will be encouraged. Start-up support and laboratory facilities will be made available within the HSC Research Institute. These positions lead to permanent staff positions. Cross-appointment to the University of Toronto is feasible.

Applicants with a Ph.D., M.D. or equivalent, should submit their curriculum vitae, a brief statement of their research interests and the names of three referees, by **December 30, 1994**, to: **Dr. H. O'Brodovich, Director of Respiratory Research, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, Canada, M5G 1X8.**



THE HOSPITAL
FOR SICK CHILDREN



CIMMYT

The Board of Trustees of the International Maize and Wheat Improvement Center (known by its Spanish acronym, CIMMYT) seeks nominations/applications for a:

DIRECTOR GENERAL

CIMMYT is a global leader in scientific research and training on maize and wheat, and in economics and natural resource management research related to these crops. Focusing on the needs of the poor in developing countries, CIMMYT generates improved maize and wheat germplasm, as well as other technologies that increase agricultural productivity and preserve the natural resource base. The Center collaborates with national agricultural research systems, nongovernmental organizations, and private companies worldwide.

The DG manages a total budget of US\$32 million, and leads 100 internationally recruited scientists and 800 local support staff based at CIMMYT headquarters near Mexico City and in 15 regional offices in Asia, Africa, the Middle East, and Latin America.

DG-candidates should possess a clear vision of the role of agricultural research in meeting global development needs in the 21st century; the ability to express that vision to international donors and partners; and leadership qualities to motivate a world-class multidisciplinary and multinational research team. The position calls for an advanced degree in an agriculturally-related biological or social science, and a minimum of 8 years' experience managing scientific research programs. International/multicultural experience is essential. Excellent English is required; Spanish is an added advantage.

The Director General's term is 5 years, once renewable, with an internationally competitive salary and benefits package. Female candidates are strongly encouraged to apply.

Submit nominations/applications to the address below by Dec. 15:

Dr. Burton Matthews, CIMMYT DG Search Committee
Department of Geography, Isaiah Bowman Building
University of Waterloo, Waterloo, Ontario N2L 3G1 Canada
Tel: (519) 885-1211 ext 6016; Fax: (519) 746-0658

CIMMYT is an equal opportunity employer.

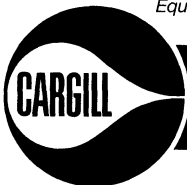
SENIOR RESEARCH CHEMIST

Cargill is one of the largest and most diversified companies in the world. We have an opportunity for a Scientist to work in conjunction with our commercial staff and customers to identify new opportunities and develop new products.

Qualified applicants will have a PhD in Microbiology, Biochemistry, Food Science, or the equivalent, and 1 to 5 years of further experience. A basic science foundation with connection to practical application is required; microbial nutrition or food ingredient functionality is most desired. Superior communication and problem solving skills are essential. Spanish fluency is desirable.

For consideration, please submit your resume, including salary requirements, to: Cargill, Inc., Donna Bloom, Human Resources #10, P.O. Box 5697, Minneapolis, MN 55440. Fax (612) 742-7022. No phone calls please.

Equal Opportunity Employer



ENTER OUR CITY OF DISCOVERY

City of Hope is a world renowned medical and research facility that is confronting the challenges of cancer and other major diseases through breakthrough research programs and innovative treatment. More than 100 clinical and laboratory-based research programs are helping to discover new methods of diagnosis and treatment.

If you have a Master's or Bachelor's degree plus the desire to make an important contribution to the health of millions, we invite you to enter our City of Discovery. Opportunities are available for Research Associates in areas like:

**MOLECULAR BIOCHEMISTRY
BIOLOGY
IMMUNOLOGY**

For more information on our latest discoveries, and how you can be one of them, please contact **Human Resources, City of Hope, 1500 E. Duarte Road, Duarte, CA 91010. Jobline (818) 301-8200.** Resumes are accepted on a continuous basis. We are an Equal Opportunity Employer.



City of Hope

A National Cancer Institute Designated Clinical Cancer Research Center

U.S. DEPARTMENT OF ENERGY
OFFICE OF HEALTH AND ENVIRONMENTAL RESEARCH



Alexander Hollaender DISTINGUISHED Postdoctoral Fellowship Program

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Energy-Related Life, Biomedical, and
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- Research in OHER-sponsored programs
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- U.S. citizens or PRA eligible

Information and applications:

Hollaender Postdoctoral Fellowships
Science/Engineering Education Division
Oak Ridge Institute for
Science and Education
P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-9975

Deadline January 15, 1995

POSITIONS OPEN

BEN-GURION UNIVERSITY OF THE NEGEV FACULTY OF HEALTH SCIENCES FACULTY POSITION

The Faculty of Health Sciences invites applications for tenure-track **FACULTY POSITIONS** and for Allon Fellowship candidates leading to tenure-track positions in Basic Medical Sciences. Candidates should utilize modern approaches in the following areas: microbiology, human genetics, biochemistry, cell biology, molecular biology, developmental biology, immunology, neurobiology, physiology and pharmacology. A Ph.D. and/or M.D. degree, and at least two years of postdoctoral training are required. Excellence in research and teaching 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, (FAX: 972-7-277342)** by December 9, 1994.

A **POSTDOCTORAL POSITION** is available immediately for a Ph.D. to participate in studies of immunohistochemistry, structure and metabolism of lipoprotein(a). The ideal candidate will possess a strong background in lipoproteins and knowledge of basic molecular biology techniques. Excellent oral and written communication skills and the potential to work independently are required. The appointment is for three years, possibly renewable.

For consideration, please send curriculum vitae and three letters of recommendation to:

Dr. Santica M. Marcovina
University of Washington
Division of Metabolism, Endocrinology &
Nutrition/Northwest Lipid Research Labs
2121 North 35th Street, XD-48
Seattle, WA 98103

Telephone: 206-685-3331; FAX: 206-685-3279

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

EVOLUTIONARY BIOLOGIST UNIVERSITY OF VIRGINIA

The Department of Biology of the University of Virginia seeks an individual of outstanding promise to fill a new tenure-track position of **ASSISTANT PROFESSOR** as we continue to build strength in the broadly defined field of Evolutionary Biology. The successful candidate will be expected to have an innovative research program and to participate in graduate and undergraduate teaching. Mountain Lake Biological Station, a facility of the Department, offers research opportunities and colleagues in addition to those in Charlottesville.

Candidates should submit a curriculum vitae, the names and addresses of three references, and statements of teaching and research interests by January 1, 1995, to: **Prof. Henry M. Wilbur, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, VA 22903-2477.** Women and minorities are encouraged to apply and identify themselves. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL/MOLECULAR BIOLOGY

Adelphi University seeks to fill a tenure-track position at the **ASSISTANT** (or **EARLY ASSOCIATE**) level in the Honors College with a joint appointment in the Department of Biology in the College of Arts and Sciences. The research interests of the candidate should be in the molecular biological aspects of development. The position begins September 1, 1995. Candidates should demonstrate outstanding scholarship and a strong record of achievement and show potential for development of a strong research laboratory using state-of-the-art techniques in the field. Teaching responsibilities will include courses at the undergraduate and graduate (M.S.) levels. Applicants should submit curriculum vitae, bibliography, description of teaching and research goals, and three letters of reference to: **Developmental/Molecular Biology Search Committee, c/o Dean of the Honors College, Adelphi University, Garden City, NY 11530**, no later than January 1, 1995. Adelphi University is an Equal Opportunity/Affirmative Action Employer/Male/Female.

POSITIONS OPEN

POSTDOCTORAL POSITION for Transgenic Studies in Cellular and Molecular Neurobiology—The Department of Neurobiology has postdoctoral positions available to study various aspects of molecular, cellular and developmental neurobiology. Some major areas of interest are cell-cell and cell-substratum adhesion molecules, neurite outgrowth and nerve regeneration. Specific studies include: analysis of overexpression, mutation or deletion of adhesion molecules in animals, analysis of genes such as Hox and Pax, that control the expression of adhesion molecules and their subsequent roles in the formation of morphogenetic pathways during neural development; identification of signal transduction pathways and the gene programs activated by adhesion molecule binding. Applicants should have a strong background in cellular and/or molecular biology. Send curriculum vitae and three letters of reference to: **Dr. Gerald M. Edelman, Chairman, Department of Neurobiology, The Scripps Research Institute, 10666 North Torrey Pines Road SBR14, La Jolla, CA 92037.** Affirmative Action/Equal Opportunity Employer.

PROTEIN CHEMIST/MOLECULAR BIOLOGIST

POSTDOCTORAL POSITION available immediately in laboratory studying structure-function relationships within transport proteins. Experience in cell culture, *in vitro* mutagenesis, and immunological detection of proteins is desirable, but motivation and a solid research background are more important. Send curriculum vitae, a summary of research experience, and the names of three references to: **Thomas A. Pressley, Department of Physiology and Cell Biology, University of Texas—Houston Medical School, 6431 Fannin, Houston, TX 77030.** The University of Texas is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION CELL BIOLOGY

Applications are invited for a postdoctoral fellowship to study the role of proteinases, particularly plasminogen activators, in keratinocyte migration and differentiation. Biochemical, molecular biological, and microscopic approaches will be utilized. Opportunities for interactions with other basic scientists in the university community are available and encouraged. Send curriculum vitae, including description of research experience to: **Pamela J. Jensen, Ph.D., Department of Dermatology, University of Pennsylvania, 242 CRB, Philadelphia, PA 19104-6142.**

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

POSTDOCTORAL RESEARCH POSITION to study the genetic regulation of programmed cell death in *Drosophila* (Science, 264:677-683). Work will focus on the use of genetic and molecular techniques to identify and characterize genes involved in apoptosis. Knowledge of basic molecular techniques and some experience in a genetic system desirable. Salary is negotiable according to experience and institutional guidelines. Send curriculum vitae and names and addresses of three references to: **Kristin White, Ph.D., Massachusetts General Hospital, Cutaneous Biology Research Center, Building 149, 13th Street, Charlestown, MA 02129.**

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

POSTDOCTORAL POSITION in molecular neurobiology at the Neurosciences Unit of the Loeb Institute to study proteins regulating synaptic vesicles. Applicants must have experience in molecular biology and will collaborate with PIs with expertise in biophysics and electrophysiology. Please send curriculum vitae, statement of interests and names of three references to: **Dr. Johnny Ngsee, Loeb Research Institute, Ottawa Civic Hospital, 1053 Carling Avenue, Ottawa, Ontario, K1Y 4E9 Canada.**

A two-year **POSTDOCTORAL POSITION** is available in laboratory working on the role of nitric oxide in pain transmission. Candidates will receive experience in molecular neuroscience and chemical neuroanatomy. Send curriculum vitae and three letters of support to: **Professor Edgar Iwamoto, Department of Pharmacology, University of Kentucky, College of Medicine, MS-320, Lexington, KY 40536.** FAX: 606-323-1981; Email: ediwamoto@aol.com.

POSITIONS OPEN

POSTDOCTORAL FELLOW: Available position in molecular oncology laboratory examining the regulatory role of transcription factors during normal and abnormal hematopoiesis. Current lab focus is to define the downstream target genes and upstream regulatory elements of a zinc finger gene family and determine their biological role in the regulation of myeloid differentiation. (See *Mol. Cell. Biol.*, 14:1786, 1994). Experience in molecular and cell biology or immunology is preferred. Send curriculum vitae, statement of research interests and names with addresses of three references to: **Jennifer F. Morris, Ph.D., Medical College of Wisconsin, Department of Pediatrics, MFRC, 8701 Watertown Plank Road, Milwaukee, WI 53226.** Equal Opportunity/Affirmative Action Employer/Male/Female/Disabled/Veterans.

POSTDOCTORAL FELLOWSHIP: In structure/function studies of a family of mammalian Na/H exchangers. Research will focus on chimera studies, identification and cloning of interacting proteins, phosphorylation, and protein expression. Prior experience in molecular biology required. Experience with yeast, immunocytochemistry and biochemical techniques desired. Candidates should be U.S. citizens or permanent residents. Send a curriculum vitae and names of two references to: **Mark Donowitz, M.D., Chief, GI Unit, Johns Hopkins University School of Medicine, 918 Ross Building, 720 Rutland Avenue, Baltimore, MD 21205-2196.** An Affirmative/Equal Opportunity Employer.

POSTDOCTORAL POSITION to apply advanced Optical Mapping approaches to human genome analysis (see *Science*, 262:110-114, 1993). Projects include development of new approaches to sequencing, applications of new genotyping methodologies, and whole genome approaches to restriction mapping and gene hunting. Other projects include the development of fully automated, non-electrophoretic genomic analysis tools for diagnostics. Send curriculum vitae, summary of past research, and three letters of reference to: **Dr. David C. Schwartz, New York University, W. M. Keck Laboratory for Biomolecular Imaging, New York, NY 10003.** NYU is an Equal Opportunity Employer.

POSTDOCTORAL POSITION: to investigate bacterial multidrug resistance pumps, stress response to uncoupling, and the isolation/mechanism of action of natural antimicrobial peptides. Research is being sponsored by grants from both the government and corporate sources. Experience in recombinant DNA techniques is required. Experience in Protein Chemistry or Bioenergetics a plus. Send curriculum vitae to: **Dr. Kim Lewis, University of Maryland School of Medicine, 100 Penn Street, 440E, Baltimore, MD 21201-1082.** The University of Maryland at Baltimore is an Affirmative Action/ADA/Equal Opportunity Employer.

POSTDOCTORAL POSITION to study the *in vivo* sequence specificity of DNA equilibrium binding/alkylating agents. Ph.D. in biochemistry and expertise in molecular biology required. Send curriculum vitae and three letters of reference to: **Dr. Barry Gold, Eppley Institute, University of Nebraska Medical Center, Box 986805, Omaha, NE 68198-6805.**

POSTDOCTORAL POSITION, Harvard Medical School, available now to study regulation of cell adhesion molecules (CAMs) by bone morphogenetic proteins, effects of ethanol on CAM function. Prefer experience in molecular biology, protein chemistry, primary cell culture. Send curriculum vitae, description of research experience, and three references to: **Dr. Michael E. Charness, Department of Neurology (127), Harvard Medical School, 1400 VFW Parkway, West Roxbury, MA 02132.** FAX: 617-323-7700, x5033. An Affirmative Action/Equal Opportunity Employer.

MOLECULAR TOXICOLOGY PROGRAM UNIVERSITY OF COLORADO

POSTDOCTORAL RESEARCH ASSOCIATE with a background in biochemistry to work with a multidisciplinary group studying novel pathways of metabolism and mechanisms of carcinogenesis. Experience with P450 or other oxidative enzymes and isolation/analysis of protein or DNA adducts is desirable. Please send a curriculum vitae and the names of at least two references to: **Dr. John Thompson, Department of Pharmaceutical Sciences, Box C238, University of Colorado Health Sciences Center, Denver, CO 80262.** The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.



NeuroSpheres Ltd.

NeuroSpheres Ltd., is a Calgary-based biotechnology company at the forefront of research and development in neural stem cell stimulation, manipulation and modification. As a result of an expansion in our research activities, we are recruiting:

Research Scientists

With experience in the following areas:



Molecular Biology

Researchers with experience in RT-PCR, DNA sequencing, Northern and Southern hybridizations, cDNA library construction and analysis, generation of vector constructs, eukaryotic expression systems, and homologous recombination are required to contribute to this rapidly expanding research division.



Cell Culture

Researchers are needed to contribute to the development of our tissue culture research program. Experience with primary cultures, cell lines, and genetic and epigenetic manipulation of mammalian cells in culture are required.



Screening

Scientists are required for the development of high capacity screening assays using robotics and image analysis. Experience in protein purification would also be an asset.



Animal Models

Positions are available in the areas of small animal and primate surgery, neurotransplantation, behavioral assessment, and *in vivo* genetic manipulation.

Senior Research Scientists should have 3-7 years Postdoctoral experience, Research Scientists 0-3 years Postdoctoral experience, and Research Associates either a B.Sc. or M.Sc.

For consideration, please submit C.V. to: **NeuroSpheres Ltd., Human Resources, 83HM, 3330 Hospital Drive N.W., Calgary, Alberta, Canada, T2N 4N1 Fax: (403) 220-8114**

PLANT SYSTEMATIST MYCOLOGIST/CELL BIOLOGIST MIAMI UNIVERSITY, OXFORD Department of Botany

Applications are invited for two tenure-track Assistant Professorships beginning August 1995 on the Oxford campus. Successful candidates will join a growing, broadly-based department committed to educational and scholarly excellence and faculty diversity. A Ph.D. degree in Botany or a closely related discipline is required along with a genuine commitment to excellence as a teacher-scholar. Postdoctoral experience is preferred. Successful candidates will teach courses at the introductory as well as the advanced level and develop a vigorous, extramurally-funded research program.

Plant Systematist. We seek a broadly-trained plant systematist/taxonomist using modern molecular techniques to address fundamental questions in plant systematics and to complement existing departmental and interdepartmental programs. Areas of research interest may include but are not limited to plant evolution, economic botany/ethnobotany, tropical botany, and conservation biology.

Mycologist/Cell Biologist. We seek a broadly-trained mycologist/cell biologist to complement and expand our core teaching and research programs in mycology and related disciplines. Research interests should emphasize modern cellular, physiological, and/or molecular approaches to fungal biology, including but not limited to fungal physiology, plant pathology, and ecological interactions of fungi. Use of electron and/or confocal microscopy as a research tool is beneficial.

The Miami Botany department currently has 15 full-time faculty, over 120 undergraduate majors, and 36 full-time graduate students. The department offers B.S. and B.A. degrees in Botany and Botany-Environmental Science, M.A., M.S., and Ph.D. degrees in Botany, and a Master of Arts in Teaching degree. The Oxford campus, located 35 miles northwest of Cincinnati, has over 16,000 students and is recognized as one of the nation's best liberal arts universities. The Turrell Herbarium, an interdepartmental Electron Microscope Facility with state-of-the-art cryofixation capability, greenhouse/plant growth chamber facilities, field research plots, an Ecology Research Center, extensive analytical instrumentation, and partnership in a Howard Hughes Medical Institute grant offer outstanding support for scholarship. Interaction with faculty and students in other disciplines is encouraged.

Candidates should submit application materials (curriculum vitae, a statement of teaching philosophy and interests, a statement of research interests, and not more than three reprints of representative research), and should arrange to have three letters of reference sent to: **Dr. Kenneth Wilson, Chair, Plant Systematics Search Committee** or **Dr. Jerry McClure, Chair, Mycology/Cell Biology Search Committee, Dept. of Botany, Miami University, Oxford, OH 45056.** Fax 513-529-4243. Review of application materials begins 1 December 1994. MIAMI UNIVERSITY OFFERS EQUAL OPPORTUNITY IN EMPLOYMENT AND EDUCATION.

THE UNIVERSITY OF CALIFORNIA AT BERKELEY

Six Tenure-Track Assistant Professor Faculty Positions

This is to announce the *extension of application deadlines* on several positions described in the September 9, 1994, issue of *Science*. We seek six appointments over the next two years in the Department of Molecular and Cell Biology. The first appointees are expected to join the faculty by July 1, 1995, and subsequent appointees by July 1, 1996.

Ph.D. and/or M.D. scientists should have demonstrated excellence, originality, and productivity in research, as well as a strong interest in undergraduate and graduate teaching.

Multiple faculty search committees have been formed, and applications should be directed to the Chair of the appropriate committee(s) at the address below. Applications should include a curriculum vitae, bibliography, a brief description of research accomplishments; a two-page statement of research objectives and teaching interest; reprints of the three most significant publications; and names of three referees (do not submit letters at this time). Candidates applying to multiple positions must send a separate and complete application to each desired search committee. Applications must be received by **November 30, 1994**. Applicants who applied for the October 24, 1994, deadline are still under active consideration and need not reapply.

Biochemistry and Molecular Biology Search: Research emphasis in microbial biochemistry, host-pathogen (virus, bacterium, fungus) interactions. *Or*

Research emphasis in mechanism and regulation of chromosome replication, signal transduction, gene expression, or hormone response in mammals.

Cell Biology Search: Research emphasis in cell-cell interactions including signaling, molecular endocrinology, receptor biology, cell junctions, cell-ECM interactions, cell polarity and tissue differentiation, and tumor biology.

Genetics and Development Search: Research emphasis in the broad areas of genetic and developmental studies of vertebrates, including human genetics.

Immunology Search: Research emphasis in molecular or cellular immunology, including signal transduction in lymphocyte activation, inter- or intracellular communication, B cell development, or mechanisms of gene rearrangement.

Neurobiology Search: Research emphasis in one of several broad areas of neurobiology, including synaptic plasticity and memory mechanisms; neural development; cell-cell signaling and communication; and dynamic properties of neural circuits, networks, and systems.

*Dept. of Molecular & Cell Biology
Chair, (indicate specific search)
401 Barker Hall #3202
University of California
Berkeley, CA 94720-3202*

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

POSITIONS OPEN

POSTDOCTORAL POSITION INSULIN-LIKE GROWTH FACTOR-II (IGF-II) AND CARCINOGENESIS

A newly developed IGF-II transgenic mouse model will be used to study cellular and molecular mechanisms of IGF-II action during carcinogenesis. Applicants should have a Ph.D. in a relevant discipline. Send curriculum vitae and names of three references to: **Charles E. Rogler, Ph.D., Marion Bessin Liver Research Center, Department of Medicine, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.**

An Equal Opportunity Employer

POSTDOCTORAL RESEARCH POSITION

Funded by an NIH training grant in immunology. Available February 1, 1995, to study lymphoid and myeloid cell activation. Focus of laboratory has been Pim-1 kinase involvement in gene activation. Strong background in molecular biology required. Send résumé and names of three references to: **Dr. N.S. Magnuson, Department of Microbiology, Washington State University (WSU), Pullman, WA 99164-4233.** Applicants must be U.S. citizens or permanent residents of the United States. *WSU is an Equal Opportunity/Affirmative Action Educator and Employer.*

POSTDOCTORAL RESEARCH AFFILIATE position is available at the USDA, Agricultural Research Service, Beltsville Agricultural Research Center to study the mechanism of synthesis and role of β -glucans in plant-microbe interactions concentrating on the soybean symbiosis with *Bradyrhizobium*. Training in purification of membrane proteins and microbial genetics are desired. Appointment for one year (renewable) at GS-9 (\$28,964-\$32,825). Send résumé to: **Dr. Donald L. Keister, USDA, ARS, SARI, Building 011, HH-19, BARC-W., Beltsville, MD 20705.** Telephone: 301-504-5723. *USDA is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately at the University of California, San Francisco for a highly motivated individual with expertise in NMR to use high resolution, 2-, 3- and 4-dimensional, heteronuclear NMR to determine the structure of a protein-protein complex. Send résumé and three references to either **Dr. Kuntz, Pharmaceutical Chemistry Department, UCSF, San Francisco, CA 94143** or **Dr. Waskell, Anesthesia Department, VA Medical Center, UCSF, 4150 Clement Street, San Francisco, CA 94121.** *Equal Opportunity Employer.*

TWO POSTDOCTORAL POSITIONS IN NEUROSCIENCE

Available immediately to study plasticity of the autonomic nervous system using structural, functional, neurochemical, and molecular approaches. Training in electron microscopy and stereotaxic surgery is desirable. Send letter stating research interests/experience, curriculum vitae, and names/numbers of three references to: **Dr. Peter G. Smith, Department of Physiology, University of Kansas Medical Center, Kansas City, KS 66160-7401.**

Positions in Receptor Biochemistry and Signal Transduction—The Scripps Research Institute. Applications are invited for **POSTDOCTORAL FELLOW** or **JUNIOR FACULTY** positions in the Department of Immunology to study endotoxin/membrane receptor interactions in leukocytes and other cells. See *Science*, 265:808, 1994, *Curr. Opin. Immunol.*, 6:125, 1994, *PNAS*, 90:2744, 1993, and *PNAS*, 90:9930, 1993. Positions available immediately. Send curriculum vitae and references to: **Richard J. Ulevitch, Ph.D. or Peter S. Tobias, Ph.D., IMM-12, TSRI, 10666 North Torrey Pines Road, La Jolla, CA 92037.** FAX: 619-554-3289.

The Scripps Research Institute is an Equal Opportunity/Affirmative Action Employer.

PROTEIN ENGINEERING. POSTDOCTORAL research in enzyme design and directed evolution. Ph.D. in biochemistry or molecular biology and experience with protein expression, mutagenesis, characterization. Send résumé and names of three references to: **Professor F. H. Arnold, Division of Chemistry and Chemical Engineering 210-41, California Institute of Technology, Pasadena, CA 91125.** *The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

POSITIONS OPEN

EARL S. TUPPER TROPICAL RESEARCH POSTDOCTORAL FELLOWSHIP

The Smithsonian Tropical Research Institute (STRI) in the Republic of Panama invites applications for the annual three-year Earl S. Tupper Tropical Research Postdoctoral Fellowship. Disciplines may include ecology, anthropology, paleontology, evolution, systematics, behavior and physiology of tropical plants or animals. Research should be based at one of the STRI facilities; proposals that include comparative research in other tropical countries will be considered.

Applications should include a research proposal (not to exceed 10 pages), a curriculum vitae, two letters of reference, names and telephone numbers of three additional professional references and reprints of up to three papers. Applicants are urged to consult with the STRI scientific staff member who will serve as their advisor before submitting final application. Annual stipend is \$28,000 with yearly travel and research allotments. Deadline: January 6, 1995. Send application to: **Tupper 3-Year Postdoctoral Fellowship, Smithsonian Tropical Research Institute, Unit 0948, APO AA 34002-0948, USA.** FAX: 507-32-5978; Email: STREM015@SIVM.SI.EDU.

Announcement of awards will be mailed March 15, 1995, to begin after October 1, 1995. Awards are based upon merit, without regard to race, color, religion, sex, citizenship, national origin, age or condition of handicap.

NATIONAL INSTITUTES OF HEALTH SENIOR POSTDOCTORAL FELLOW in Molecular Biology and Biochemistry

The Laboratory of Physical Biology of the National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Public Health Services has been a premier center for innovative research in muscle contraction. We are seeking a senior level **POSTDOCTORAL FELLOW** to study the effects of mutant muscle proteins on muscle structure, biochemistry and physiology. The successful candidate will have the opportunity to conduct joint research in protein expression and site directed mutagenesis of muscle proteins, and also to interact with a number of investigators. Independent efforts are encouraged. He/she must have proven expertise in molecular biology. A strong background in biochemistry, especially a knowledge of muscle biochemistry, but with less than five years of relevant postdoctoral experience is preferred. Applicant should submit curriculum vitae and a statement of recent research interest (limited to one page) and three letters of recommendation to: **Dr. Leopo Yu, 6 Center Drive, MSC2755, Building 6, Room 425, Bethesda, MD 20892-2755.** *National Institutes of Health is an Equal Opportunity Employer.*

EVOLUTIONARY ECOLOGY. The University of Kentucky has funds from the NSF Graduate Research Training program for **POSTDOCTORAL** and **GRADUATE FELLOWSHIPS** to support training and research in ecology, evolution or behavior. The program offers extensive opportunities for training in both empirical and theoretical methods. Faculty participants include: **E. Brodie III, P. Crowley, S. Gleeson, K. Haynes, A. Moore, R. C. Sargent, A. Sih, D. Wagner, D. Westneat and D. Wise.** Graduate fellowships provide a \$14,000 stipend, for one year, renewable for a second year based on satisfactory progress towards a Ph.D. Postdoctoral fellowships provide a \$25,000 stipend for one year. Additional funds are available to support research expenses. To apply, send a curriculum vitae and a letter summarizing your background and research interests to one of the above faculty members, c/o **Center for Ecology, Evolution and Behavior, 101 Morgan Building, University of Kentucky, Lexington, KY 40506-0225.** We particularly encourage women and minority applicants. *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE

A position is available to study molecular mechanisms of early kidney development using both *in vivo* and *in vitro* models. Developmentally regulated transcription factors are of particular interest (see articles in *Nature*, 362, p. 65; *Development*, 119, p. 711).

Please send curriculum vitae, a summary of research interests and three letters of reference to: **Dr. G.R. Dressler, Department of Pathology, University of Michigan, MSRB II, Room 4544, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0650.** *An Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study the structure/function of *E. coli* Primase *in vivo* and *in vitro* using site-directed mutagenesis and related techniques; experience with mutagenesis preferred. Please send curriculum vitae and names of references by December 2, 1994 to: **Dr. Mark Griep, Department of Chemistry, 733 Hamilton Hall, University of Nebraska-Lincoln, Lincoln, NE 68588-0304.** *The University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity. We assure reasonable accommodation under the Americans with Disabilities Act; contact Dr. Griep.*

The Department of Environmental Health, University of Cincinnati is seeking a **RESEARCH ASSISTANT PROFESSOR** for a two-year, non-tenure-track position. Requirements: doctorate in environmental epidemiology, experience conducting childhood exposure studies, designing collection protocols for environmental and biological samples; obtaining samples, reporting results to participants, familiarity with QA/QC and chain of custody, excellent analytical, writing, and communication skills, effective management skills, and experience working with governmental and community groups. Responsibilities: design, management, analysis, and reporting of environmental lead and arsenic exposure studies; coordinating study activities among field, lab, data center, and administrative staffs; interfacing with contractors, funding sources, regulatory agencies, and community groups; initiating independent research. Substantial travel and on-site residency is required. Applicant must assume this position effective January 1995. Send letter of application and curriculum vitae to: **Dr. Bornschein, Department of Environmental Health, P.O. Box 670056, Cincinnati, OH 45267-0056;** applications must be postmarked by November 15, 1994. *The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL/ RESEARCH ASSOCIATE

We seek an outstanding individual to participate in research projects aimed at elucidating the molecular mechanisms involved in the development and progression of human prostate malignancy. Specific area of research include identification of tumor suppressor loci, the regulation of Y chromosome encoded genes, and defining the gene expression events associated with prostate cancer progression. Qualified candidates should have a Ph.D. with experience in molecular biology or human molecular genetics. An interest in human prostate cancer and human cancer genetics is essential. Salary is commensurate with level of experience. Interested candidates should send their curriculum vitae and statement of research interests to: **James V. Tricoli, Ph.D. c/o M. Sharp, Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** *Equal Opportunity Employer.*

RESEARCH ASSOCIATE and **RESEARCH TECHNICIAN**—two positions available to conduct research on placental barrier transport and metabolism of drugs of abuse with an *in vitro* model. Experience with cell/tissue culture systems, some training in placental physiology, and familiarity with HPLC analytical procedures desired. Positions available to M.D. or Ph.D. (Research Associate) or B.S./Master's degree level (Research Technician) in Biochemistry, Physiology, Pharmacology, Cell Biology or closely related areas. To apply, submit curriculum vitae, three letters of recommendation, and earliest start date to: **Dr. Kenneth L. Audus, Department of Pharmaceutical Chemistry, The University of Kansas, 3006 Malott Hall, Lawrence, KS 66045-2504** by November 20, 1994. *An Equal Opportunity/Affirmative Action Employer.*

WETLAND SCIENTIST: 3D/Environmental, a multidisciplinary environmental consulting firm is seeking a wetland scientist at the Ph.D. or M.S. level. This individual will provide technical leadership for wetland projects within the Natural Resources Program (NRP). NRP also includes endangered species and aquatic/terrestrial ecology. NRP collaborates with NEPA Project Management and Cultural Resources Programs. Expertise and experience should include wetland sciences (soils, vegetation, and hydrology), permitting, habitat creation/restoration, multidisciplinary project interaction, and project management. Strong written and oral skills are essential; consulting experience preferred. Send application materials to: **Dr. Virgil Brack, Jr., 3D/Environmental, 781 Neeb Road, Cincinnati, OH 45233.**

PHD AND POST DOCTORAL CHEMISTS

**We're
visiting the
States in
January
and want
to meet
you!**

In January 1995 we will be visiting the USA to hold our annual preliminary interviews for vacancies at our new Research headquarters at Stevenage in England.

If your PhD or Postdoctoral work is due to finish in 1995 and you would like to be considered for a vacancy as a synthetic organic chemist working in drug discovery or development then send us a copy of your cv.

If selected we will interview you at an appropriate location in

the States and successful candidates will then be invited to England for a tour of our brand new facilities and final interview.

Applications, which are welcome from all nationalities should be made by fax or courier to arrive no later than Tuesday 13th December 1994 with
Claire Cutler, Senior Human Resources Adviser, Glaxo Medicines Research Centre, Gunnells Wood Road, Stevenage SG1 2NY, England.
Fax 01438 763055

Glaxo Research & Development



UNIVERSITY OF MISSOURI - COLUMBIA

PLANT BIOLOGISTS

The Division of Biological Sciences at the University of Missouri invites applications for *two* new tenure-track positions (Assistant or Associate Professor) in plant biology.

Developmental Biology

Candidates using diverse approaches to address important questions in plant development will be preferred.

Evolutionary Biology

Candidates developing or testing evolutionary theory and addressing fundamental questions in plant systematics will be preferred.

We are particularly interested in candidates who bring a broad interdisciplinary approach to their research. The primary consideration will be the quality of research and its relationship to existing strengths in molecular biology, genetics or population biology in Biological Sciences and the University's Interdisciplinary Plant Group. Commitment to excellence in teaching at all levels is essential. *We strongly encourage women and members of minority groups to apply.* Send curriculum vitae, statements of research plans and teaching interests, and three letters of reference by **December 1, 1994** to:



Dr. John David, Chair
Division of Biological Sciences
105 Tucker Hall
University of Missouri
Columbia, MO 65211

UNIVERSITY OF SOUTH FLORIDA AND H. LEE MOFFITT CANCER CENTER AND RESEARCH INSTITUTE

1 Research Assistant Professor
1 Staff Scientist
2 Postdoctoral Fellows

Postdoctoral fellowship positions to study molecular structure and function of hemopoietic growth factor receptors and signal transduction in normal and malignant cells. **Research Assistant Professor** position requires minimum 2 years of postdoctoral experience in molecular/cellular biology, preferably related to signal transduction and/or hematopoiesis. This individual will supervise a project and will be expected to compete successfully for external funding. **Staff Scientist** position requires minimum 2 years of postdoctoral experience in molecular/cellular biology, preferably related to signal transduction and/or hematopoiesis. Send c.v., references, and concise description of research interests to: Ken Zuckerman, M.D., Director, Division of Medical Oncology and Hematology, University of South Florida, H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, FL 33612.

The H. Lee Moffitt Cancer Center and Research Institute is an Equal Opportunity Employer
The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer

POSITIONS OPEN

FRESH WATER ECOLOGY MARINE ADVISORY SERVICES SPECIALIST

The Illinois-Indiana Sea Grant Program in cooperation with Purdue University is seeking a fresh water ecologist (Ph.D., desirable) to fill the newly created Marine Advisory Services **SPECIALIST POSITION** in Natural Resources at Purdue University Calumet in Hammond, Indiana, beginning January 1995.

The Marine Advisory Services specialist will devote 70% of his or her effort to extension service. This encompasses the education, outreach and technology transfer mission of the Illinois-Indiana Sea Grant Program to state agencies, industries and commercial personnel, as well as to water-based ecosystem users. The position involves interacting with the Purdue Cooperative Extension and state and federal agency offices and includes a 30% teaching and research responsibility in the Department of Biological Sciences at Purdue University Calumet. The successful applicant will teach in his or her area of specialization and conduct research independently or in cooperation with the resident ecologists of the Purdue-Calumet campus. Salary will be commensurate with qualifications and experience.

Applicants should include a statement of outreach and extension, as well as, teaching and research experience and interest, curriculum vitae, and the names, addresses and telephone numbers of three references by November 4, 1994, or until suitable candidate is found; to: **Chair, Search Committee, Biological Sciences, Purdue University Calumet, Hammond, IN 46323.** *Purdue University Calumet is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

GROUP LEADER MOLECULAR GENETICS

Applications are invited for a prokaryotic molecular biologist to head a research group developing *Escherichia coli* strains for the production of amino acids and vitamins. Archer Daniels Midland, with \$11 billion in total sales, is a major producer of amino acids and vitamins for use in animal feeds. Worldwide it has the newest and largest state-of-the-art production facility for a wide variety of fermentation products. Fermentation is an expansion area for Archer Daniels Midland in the 1990's. Applicants must have experience in *Escherichia coli* genetics and physiology, and hands-on knowledge of the latest recombinant techniques. Qualifications must include Ph.D. with three or more years of postgraduate experience. Experience in amino acid or vitamin metabolism a plus. Must be a U.S. citizen or a permanent U.S. resident. Send résumé to:

Thomas P. Binder, Ph.D.
Archer Daniels Midland Company
1001 Brush College Road
Decatur, IL 62526

An Equal Opportunity/Affirmative Action Employer.

GRADUATE ASSISTANTSHIPS in Molecular Biology, Biochemistry and Biophysics. Several positions are available in the Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, Connecticut. Departmental research interests emphasize regulation of gene expression in embryogenesis and development; heat-shock response and cellular regulation of iron metabolism; biophysics of protein-nucleic acid interactions; tissue differentiation and regulation of collagen gene expression; molecular genetics and regulation of protein secretion; DNA replication; biophysics of allosteric proteins; nuclear magnetic resonance spectroscopy, optical and vibrational spectroscopy and computer modeling. All students receive 12 month stipends, tuition remission, good fringe benefits and dependency allowance, if applicable. Opportunities to teach. Write: **Director of Graduate Admissions, Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, CT 06459-0175.**

Positions are immediately available at an established Biotech company in Houston, Texas for **MOLECULAR BIOLOGISTS** with experience in sequencing, PCR, library construction and hybridization. Candidates must possess a Ph.D. in the life sciences and have demonstrated their ability to work in a team environment. Competitive salary commensurate with experience. FAX or mail your résumé to: **Ms. Theresa Grider, Lark Sequencing Technologies, Inc., 9545 Katy Freeway, Suite 200, Houston, TX 77024. Telephone: 713-464-7488; FAX: 713-497-6435.** *Lark Sequencing Technologies, Inc. is an Equal Opportunity Employer.*

POSITIONS OPEN

IN VIVO MRI/MRS SCIENTIST

The Pittsburgh NMR Center for Biomedical Research has a position available for an outstanding **SCIENTIST** with expertise and experience in MRI/MRS techniques, theory, and applications to study animal physiology. The Center has active projects from investigators at Carnegie Mellon University and the University of Pittsburgh. Emphasis is on applications of NMR to transplantation surgery, cellular energy metabolism, combining NMR and molecular biological techniques, and development of novel imaging and spectroscopic techniques. The candidate will be expected to pursue collaborative as well as their own research interests. The Center houses a 4.7T/40cm Bruker Biospec II imaging spectrometer. Personnel in the Center also have access to a 2.35T/31cm and a 7.0T/15cm imaging spectrometer. Interested candidates should send a curriculum vitae, statement of research interests, and three letters of reference to: **Dr. Chien Ho, Pittsburgh NMR Center for Biomedical Research, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213-2683.**

Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.

University of North Carolina at Asheville (UNCA). Belk Professor of the Humanities, visiting appointment Spring Semester 1996. **SENIOR PERSON** for interdisciplinary Humanities Program at a public Liberal Arts I institution. Duties: seminar for faculty members from many UNCA departments who teach a senior capstone general education course on the world since World War II, an undergraduate course, and a series of public lectures. The specific faculty seminar topic is negotiable, but possible topics are the interaction of subcultures, social thought, the viability of our institutions, and the roles of science, religion and the arts. Nominations and expressions of interest should be sent to: **Anthony M. Coyne, Director, Humanities Program, University of North Carolina at Asheville, Asheville, NC 28804-3299.** Review of materials will begin December 1, 1994. *Equal Opportunity/Affirmative Action Employer. UNCA specifically encourages applications from women and minorities.*

The Department of Otorhinolaryngology at the University of Texas Southwestern Medical Center at Dallas is seeking a **PH.D.** with primary interest in cancer, immunology and molecular biology. Immunologic aspects of paranasal sinus infections will also be investigated. Research is integrated with Department of Cell Biology, Internal Medicine as well as the Simmons Comprehensive Cancer Center. Additional duties will include developing and directing new projects and teaching post-graduate residents. Two years of postdoctoral experience preferred. Applicants should submit curriculum vitae, reprints of scientific publications and names of three individuals who may be contacted for letters of reference.

John M. Truelson, M.D.
Department of Otorhinolaryngology
The University of Texas Southwestern Medical
Center at Dallas
5323 Harry Hines Boulevard
Dallas, TX 75235-9035

IMMUNOLOGY POSTDOCTORAL POSITION available immediately to study systemic and mucosal host defense mechanisms to infectious agents and the influence of exogenous agents on cellular immune functions with the use of cellular and molecular approaches. A strong background in immunology, toxicology, microbiology desired. Position is funded through a NIH training grant and applicants must have U.S. citizenship. Send curriculum vitae and three references to: **Dr. Thomas Jerrells, Department of Cellular Biology, Louisiana State University Medical Center, P.O. Box 33932, Shreveport, LA 71130.** *An Affirmative Action Employer.*

Midtown Manhattan intellectual property law firm is looking for recent **PH.D. GRADUATES** to work in growing patent prosecution practice. Candidates should have background in organic chemistry, biochemistry, molecular biology, or immunology. We offer a full benefit package and opportunities for tuition reimbursement for those attending law school in the evening. Please send résumé to:

Cooper & Dunham
1185 Avenue of the Americas
New York, NY 10036
Attention: Colette McKenna
Director of Firm Development

No telephone calls please.

POSITIONS OPEN

MOUSE ES CELL/TRANSGENIC FACILITY

Seeking **TECHNICIAN** or **RESEARCH ASSOCIATE** to supervise and participate in a mouse ES cell/transgenic research facility. The position requires skills in mouse husbandry and embryo or blastocyst injection. Salary is commensurate with education and experience. Please send résumé to: **Dr. Stuart Orkin, Division of Hematology, Children's Hospital, 330 Longwood Avenue, Boston, MA 02115.**

Affirmative Action/Equal Opportunity Employer.

ELECTRON MICROSCOPY STAFF ASSOCIATE

Half-time position available immediately (full-time possible, depending on grant funding.) Duties include overseeing TEM facility; user training; development of EM and data analysis techniques. Minimum Qualifications: Bachelor's degree in Biology or related field, and previous microscopy experience. Send résumé and names of three references to: **Dr. E. C. Raff, Department of Biology, Indiana University, Bloomington, IN 47405.** *Equal Opportunity/Affirmative Action Employer.*

DOCTOR OF ARTS IN BIOLOGICAL SCIENCES: FELLOWSHIPS are available for persons interested in the D.A. degree in Biological Sciences. The program stresses preparation for undergraduate teaching at colleges and universities. Applicants must hold a master's degree in some area of biology. Deadline for receipt of application is 1 March 1995.

For more information contact: **Chairman D.A. Committee, Department of Biological Sciences, Idaho State University, Pocatello, ID 83209.** *An Equal Opportunity Employer.*

IMMUNOBIOLOGY/MOLECULAR GENETICS UNIVERSITY OF MIAMI

The Division of Hematology/Oncology, a component of the NIH-funded Sylvester Comprehensive Cancer Center seeks an **ASSISTANT** or **ASSOCIATE PROFESSOR** with laboratory experience and skills in cancer immunology or molecular genetics. The Division is expanding its translational research to increase the linkage of its clinical research programs in breast cancer, gene transfer therapy, lymphoma and bone marrow transplantation with well established basic science efforts in immunobiology and cell surface receptor modulation of malignant cell proliferation and metastases. Either Ph.D. or M.D. candidates will be considered for these positions. Please send a curriculum vitae, a cover letter describing your research interests, and the names, addresses, and telephone numbers of three potential references to: **Peter A. Cassileth, M.D., Chief, Hematology/Oncology Division, University of Miami/Sylvester Cancer Center, 1475 N.W. 12th Avenue (D8-4), Miami, FL 33136.** *The University of Miami is an Equal Opportunity Employer.*

COURSES AND TRAINING

CAREER CHANGE OPPORTUNITY

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

SYMPOSIUM

SYMPOSIUM: Fluorescent Proteins and Applications; March 6 & 7, 1995; Hyatt Richeys, Palo Alto, CA. **SPEAKERS:** Roger Beachy, Scripps Research Institute; John Blinks, Univ. of Wash.; Roger Brent, Mass. General Hospital; Marie Chow, Univ. of Arkansas; Frederic Fay, Univ. of Mass. Med. Center; Nina Federoff, Carnegie Institute of Wash.; Scott E. Frasier, Calif. Institute of Technology; Alexander Glazer, U.C.B.; Woody Hastings, Harvard; Nancy Hopkins, MIT; Steve Kay, Univ. of Virginia; Douglas Prasher USDA/APHIS; Franklyn Prendergast, Mayo Foundation; Pamela Silver, Dana Farber Cancer Institute; Roger Tsien, U.C.S.D.; Peter Walter, U.C.S.F. **ABSTRACTS DUE:** February 27, 1995. **Organizer:** Douglas C. Youvan, Ph.D. and James W. Larrick, M.D., Ph.D. **Sponsor:** Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mt. View, CA 94043. **FAX:** 415-694-7717; **Telephone:** 415-694-4996; **Email:** PAIMMF@AOL.com.

Molecular Biology

QIAGEN INC. is a fast growing biotechnology company, committed to excellence in the development and marketing of innovative products for molecular biology research. We are seeking highly motivated and talented individuals to join our team.

Technical Service Specialist

Responsible for answering technical inquiries concerning our products and their applications, as well as customer and sales force training. Applicants must have broad experience in current molecular biology techniques and outstanding verbal and written communications skills. BS/MS degree in molecular biology or related discipline and 2+ years of laboratory experience in molecular biology is desirable. Based at our Los Angeles headquarters. Ref. No. TSS1094

Instrumentation Sales Consultant

Responsible for sales of our robotic workstation and training customers in its use. Applicants must have a background in molecular biology and prior sales experience with instrumentation. Travel is expected. Various territories available. Ref. No. ISC1094

Technical Sales Representatives

Applicants should have a BS/MS degree in molecular biology or related fields and 2+ years of lab experience in molecular biology. Prior sales experience is preferred, but not necessary. Please state on your resume which geographical area you would like to sell in and if you are open to relocation. Ref. No. TSR1994.

We offer competitive salaries, benefits, including relocation assistance, and a challenging, high growth environment. For immediate consideration, please send a resume and salary history to:

QIAGEN INC.
Attention: Ref. No.
9600 De Soto Avenue
Chatsworth, CA 91311
Fax: 818-718-2056



FACULTY POSITIONS in SYSTEMS and COMPUTATIONAL NEUROSCIENCE

WASHINGTON UNIVERSITY Department of Anatomy and Neurobiology

Tenure track faculty positions in the areas of systems and computational neuroscience are available in the Department of Anatomy & Neurobiology at Washington University School of Medicine. We are particularly interested in applicants whose proposed research program includes a combination of experimental and computational approaches. On the experimental side, we seek individuals whose research focuses on non-human primates and who are taking innovative approaches to important questions in systems neuroscience, including sensory processing, motor control, or cognitive function. Excellent laboratory space will be available in a state-of-the-art primate facility that is scheduled for completion in the fall of 1995. Our emphasis is on appointments at the Assistant Professor level, but appointments at a more senior level (Associate Professor or Professor) will also be considered.

The Department of Anatomy & Neurobiology includes 20 faculty who are actively involved in neurobiological research, and it is part of a much larger interdepartmental neuroscience program. The new primate facility is in close proximity to a new Imaging Center containing PET and MRI research facilities. Both the department and the neuroscience program offer numerous opportunities for scientific interactions and collaborations.

Applicants should send two copies of: a curriculum vitae, synopsis of research interests, and names, addresses, phone/fax numbers of three references to: Dr. David Van Essen, Head, Department of Anatomy and Neurobiology, Box 8108, Washington University School of Medicine, 660 S. Euclid Ave., St. Louis, MO 63110, USA. Deadline for submission of applications is January 5, 1995.

Washington University is an Affirmative Action/Equal Opportunity Employer. Applications from minorities and women are encouraged.

Imagine The Possibilities

At Berlex, we've built our reputation on FDA-approved product successes and a proven track record in the pharmaceutical industry. Currently, we are seeking dedicated individuals to join our renowned San Francisco Bay Area team and advance our scientific mission in the following exciting areas.

SCIENTIST

Mammalian Expression/Bioassay Development

Focusing on proprietary mammalian expression systems, you will support our research activities through establishing new cell lines and enhancing existing in-house expression vectors that will significantly improve current and future products. The PhD Scientist we seek will possess 1-2 years of postdoctoral experience and demonstrated expertise in the studies of DNA elements or RNA structures involved in transcriptional or translational control for mammalian gene expression. Strong cell culture and cell transfection techniques to include experience with cloning and DNA manipulation, reporter gene assays, Southern/Northern blot analyses, and DNA/RNA analyses are required. Dept. B94-013.

ASSOCIATE

Baculovirus Expression Vector Systems

Your responsibilities in heterologous gene expression will include expression vector design, transfection, recombinant selection and characterization, and cell line development, along with optimization and analysis of growth and expression systems. Interacting with a variety of research teams and production staff, you will need excellent communication skills, prior work experience in cell culture and associated analytical techniques, and a strong background in molecular biology. A BS degree in a relevant field is required; MS preferred. This Brisbane-based position will relocate to our state of the art Richmond facility in 1996. Dept. B94-010.

As a US subsidiary of an international Fortune 500 company, Berlex is proud to offer competitive salaries and a generous benefits package. To apply, send your CV/resume, referencing the dept. number corresponding with the position of your interest, to: BERLEX, HUMAN RESOURCES EMPLOYMENT, 15049 SAN PABLO AVE., RICHMOND, CA 94804-0099. Principals only, please. EOE.

BERLEX

THE BEST IS YET TO COME

CORNELL UNIVERSITY

TENURE TRACK POSITION EXPERIMENTAL BIOPHYSICS

The School of Applied and Engineering Physics at Cornell University is seeking applicants for a new tenure track assistant professorship with experimental research concentration in the application of physics to the study of biological systems. Candidates must be able to develop a successful independent research program, and to participate effectively in the teaching of the undergraduate applied physics curriculum, and biophysics courses at the undergraduate and graduate level. Substantial institutional support for research program start-up will be available. Depending upon research interests the successful candidate can benefit from association with Cornell's interdisciplinary research centers, national facilities, and national resources. These include the Cornell High Energy Synchrotron Source (CHESS); the Cornell Biotechnology Center; the NIH funded Resources: the Biomedical Technology Resource for Macromolecular Diffraction, the Developmental Resource for Biophysical Imaging and Opto-electronics, and the Parallel Processing Resource for Biomedical Scientists; the National Nanofabrication Facility; the Center for Theory and Simulation in Science and Engineering, a national supercomputer facility; and the Materials Science Center. Substantial interactions with the Cornell Biophysics and Bioengineering Programs and associated research programs in the Chemical Engineering, Biochemistry, Chemistry, Physics, and Neurobiology academic units at Cornell will be encouraged.

An appointment is expected to begin September 1995, but an earlier or later start is possible upon the mutual agreement of the successful candidate and the School. Applications, which should include a resume, a statement of research interest, a publication list, copies of most important publications or preprints, and three letters of recommendation or the names of three references, should be submitted to Professor Robert A. Buhman, Director, School of Applied and Engineering Physics, 210 Clark Hall, Cornell University, Ithaca, New York 14853-2501. The deadline for receipt of applications is Feb. 15, 1995, or until the position is filled.

CORNELL UNIVERSITY IS AN EQUAL OPPORTUNITY/
AFFIRMATIVE ACTION EMPLOYER.

Postdoctoral Positions in Structural Biology of Signalling and Adhesion Systems at Montana State University

A cooperative program seeks research associates to study molecular mechanisms of protein-protein interactions that control membrane signalling and adhesion. Approaches include mapping peptides that block protein-protein interfaces, NMR structures of bound active peptides (transferred-NOESY: *Nature*, **363**: 276-281 (1993)), photoaffinity receptor site labeling and advanced mass spectrometric analysis. The programs include:

Edward A. Dratz, G protein coupled receptors, NMR structure determination and refinement. **Algindas J. Jesaitis**, Human leukocyte chemotactic receptors, structure, regulation; G protein-actin interactions, phage display libraries. **David J. Singel**, Nitric oxide-based control mechanisms, high field and pulsed electron paramagnetic resonance, Ras p21 structure and function. **Jean R. Starkey**, Adhesion mechanisms in cancer metastasis, laminin receptor structure and function. **David M. Dooley**, Protein structure and function, subunit interactions and active site reactivity, copper in biology. **Jan Sumner**, Soft ionization mechanisms in mass spectrometry, ES and MALDI-TOF, structure and analysis of biological macromolecules. **Cynthia K. McClure**, Synthesis of conformationally restricted peptides, spectroscopic determination of small molecule structure. **Mark T. Quinn**, Interactions of components of the neutrophil NADPH oxidase including small G proteins, phage display libraries. **Mark A. Jutila**, Leukocyte and endothelial cell adhesion molecules, Structure-function analysis of selectins. **Martin Teintze**, Membrane protein insertion mechanisms, CF conductance regulator, HIV gp120-CVD4 interaction. **Heini Miettinen**, Site specific mutagenesis, structure and function of G protein coupled receptors. **Keith Parker**, Dept. of Pharmaceutical Sciences, Univ. of Montana, Missoula, Serotonin receptors in migraine mechanisms.

PhD in related area, evidence of research originality and ability in oral and written communication required. Screening begins November 7, 1994. To apply, send a letter describing background and future goals, including a CV and names of three references to: Receptor Research Group, 108 Gaines Hall, Montana State University, Bozeman, MT 59717, or to: uchad@msu.oscs.montana.edu, ADA/EO/AA/Vet.Pref.



GEORGETOWN UNIVERSITY Tenure-Track Faculty Positions Department of Biology Georgetown University In the Fields of Molecular Genetics & Ecology

Applications are invited for two tenure-track positions at the level of assistant or associate professor to begin in August, 1995. Successful candidates are expected to establish grant-supported research programs while contributing significantly to undergraduate and graduate education. Enthusiasm and facility for instruction of undergraduate students are essential. Start-up funds appropriate to the requirements of the research discipline will be provided.

Position in Ecology: The occupant of this faculty position will teach each year the second semester (ecology and evolution emphasis) of a 2-semester course in Introductory Biology for science students and will teach a specialized course in ecology. Preference will be given to applicants who have or can establish collaborative research programs with centers of excellence in ecology and/or programs which focus on significant ecological issues that can be studied in locations that are accessible from Georgetown.

Position in Molecular Genetics: The occupant of this faculty position will teach each year a 1-semester course in Genetics/Molecular Biology for undergraduate science majors and will teach an advanced course in molecular genetics. Exceptional opportunities exist for collaboration with ongoing research on the Georgetown campus in the areas of neurobiology, cancer biology, immunology, and developmental biology.

Applications should include: CV, a statement of current and future research, and the names of three individuals who are familiar with the applicant's potential as a teacher and independent research scientist. Please send applications by January 1, 1995 to either the Ecology or the Molecular Genetics Search Committee, Department of Biology, Georgetown University, Washington, D.C. 20057-1028.



ACADEMIC COORDINATOR to manage, oversee and participate in the laboratory operations of upper division courses in the Department of Biology, including: 153L (Laboratory for cellular physiology: functional histology); 158 (Cell biology); 162 (Plant physiology); 166 (Animal physiology); and 167 (Regulatory physiology). Depending upon qualifications, the successful candidate will have the opportunity to participate in appropriate lecture series in courses taught by regular members of the faculty. The primary responsibilities for laboratory operations in each course will include: participation in selection and development of laboratory exercises and computer-assisted learning; supervision and technical training of graduate student teaching assistants; coordinating and overseeing admission and registration of students in laboratory sections; participation in the development and administration of laboratory examinations; selection and maintenance of laboratory equipment; and oversight of the maintenance and use of living organisms in teaching exercises.

Qualifications include a Ph.D. degree or equivalent in an appropriate field of biology; appropriate training and experience in experimental laboratory biology; experience in teaching at a university level; and experience in working with computers in scientific laboratory settings. Level of appointment and salary commensurate with qualifications and experience. The appointment is for one academic year. Reappointment beyond that date may be possible.

Applications should include current c.v., including lists of publications, written statements of teaching and research interests and backgrounds, and names, addresses and telephone numbers of three references. Position is currently available and will be filled as soon as possible. Address applications to Academic Coordinator Search Committee, Department of Biology, University of California, Los Angeles, CA 90024-1606.

UCLA is an affirmative action/equal opportunity employer. Women, minorities, and persons with disabilities are encouraged to apply.

PROFESSOR AND DEPARTMENT CHAIR

Department of Pharmacology, School of Pharmacy, University of Mississippi (Oxford campus), invites applications for the position of professor and chair of the department. Requirements include a Ph.D. in pharmacology or toxicology or closely related field, a nationally-recognized research program, extensive experience in graduate biomedical education, proven administrative skills, and a commitment to excellence in professional pharmacy education. The successful candidate must also possess a commitment to diversity. A professional pharmacy degree and/or experience in pharmacy education is preferred. Review of applications will begin December 1, 1994, and will continue until the position is filled. Anticipated appointment date is 1 July 1995. A full position description may be obtained by writing to the address below. Applicants must submit an application letter with a description of qualifications, CV, statement of research, teaching and administrative philosophies, and arrange for 3 letters of recommendation to be sent directly to Administrative Manager, School of Pharmacy Business Office, 206W Faser Hall, University of Mississippi, University, MS 38677. The University of Mississippi is an AA/ADA/EOE.



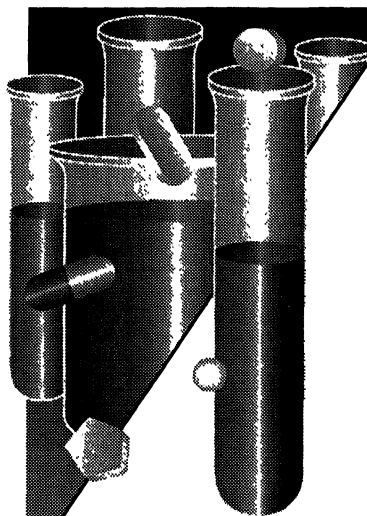
FACULTY POSITIONS

The Department of Molecular Biology & Microbiology at the Health Sciences Campus of Tufts University invites applications for two tenure-track faculty positions at the ASSISTANT PROFESSOR level. We are seeking one person who studies fundamental problems in the physiology, pathogenesis, genetics, biochemistry or molecular biology of bacteria or yeast. We would like to recruit a second person who studies replication, pathogenesis or other aspects of virology. Candidates will be expected to conduct independent research and participate in teaching graduate, medical, dental and veterinary students. Candidates should have a Ph.D. or M.D. degree and suitable Postdoctoral training. Tufts is an Equal Opportunity employer and women and minorities are strongly encouraged to apply.

Interested applicants should submit a curriculum vitae, summary of research interests, and three letters of recommendation to: Faculty Search Committee, Department of Molecular Biology and Microbiology, Tufts University, 136 Harrison Avenue, Boston, MA 02111-1800. The application deadline is January 15, 1995.

UNIVERSITY OF PORTLAND ENDOWED CHAIR IN SCIENCE

The College of Arts and Sciences invites applications for the newly established Rev. John Molter, C.S.C., Chair in Science anticipated to begin in the fall of 1995. The successful applicant will be appointed to a tenure-track position, with senior rank, in biology, chemistry, or physics. An established record of exemplary university teaching experience, especially at the undergraduate level; distinguished scholarship, involvement in student research; exceptional university, professional, and community/public service; an earned doctorate in one of the science disciplines; and an understanding of and commitment to support the mission of the University are required. There is a strong preference for a recognized leader in the science community who will actively teach science to non-science majors at the undergraduate level and who will explore the relationship of science to society. Founded in 1901, the University is a private Catholic teaching university and particularly welcomes candidates who desire to work in such an environment. Applicants should submit a letter of application which includes information about his/her interest in the role of science in society, curriculum vitae, transcripts, evidence of teaching ability, and three letters of recommendation to: John Molter Chair Search Committee, College of Arts and Sciences, University of Portland, 5000 N. Willamette Blvd., Portland, OR 97203-5798, scichair@uofport.edu.



POSTDOCTORAL FELLOWS

At the Glaxo Inc. Research Institute, located in Research Triangle Park, N.C., the focus is drug discovery and development through multidisciplinary research. Our **Postdoctoral Fellowship Programs** support scientific endeavor and scholarship through the development of researchers in the early stage of their careers. We are currently seeking to fill **three openings** for Postdoctoral Fellows in the following areas:

MEDICINAL CHEMISTRY

We seek a Ph.D. in Organic or Medicinal Chemistry to design and synthesize affinity labels based on novel agonist and antagonist ligands developed in an active drug discovery program. These ligands will be used to map ligand-receptor binding sites through covalent attachment, complementing ongoing efforts utilizing site-directed mutagenesis of the G-protein coupled, 7TM receptor target. This individual will work closely with scientists in medicinal, analytical and computational chemistry, molecular biology, biochemistry and pharmacology. Excellent communication skills, as well as a high degree of initiative and independence are essential. **Please refer to Job #ASC911729 on all resumes.**

MOLECULAR BIOLOGIST

This opportunity is available within the Osteoporosis Research Group. The candidate will join an interdisciplinary team of physiologists, cell biologists, and molecular biologists concentrating on the biology of bone. The work of the fellow will concentrate on understanding the mechanisms by which mechanical forces on the skeleton regulate bone strength. The ideal candidate must have a very strong background in molecular biology and an interest in bone biology, cell differentiation, or mechano-sensing. **Please refer to Job #ASC911731 on all resumes.**

GLUCOSE TOXICITY & INSULIN RESISTANCE

Individual will use molecular and cellular techniques to explore the underlying causes of desensitization of the insulin-responsive glucose transport systems. The successful candidate should have a strong background in cell biology and signal transduction and demonstrable oral and written communication skills. Interests in Type II diabetes, insulin resistance, genetics, and adipocyte/muscle physiology are desirable. **Please refer to Job #ASC911732 on all resumes.**

These Fellowship openings offer you the opportunity to strengthen your scientific reputation and career advancement by publication and presentation of outstanding research conducted in an excellent environment. In addition, Glaxo is proud to offer a highly competitive compensation package. Applicants should send their curriculum vitae, a statement of research interest, a list of professional references, and the Job # of interest, to: **Human Resources Department, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709.** (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

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**“Tumor Biology:
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This will be an interdisciplinary symposium covering aspects of tumor biology and with EBV as the unifying theme. It will be held in Saltsjobaden, in the Stockholm archipelago, Sweden. The number of participants will be limited to 100 on the basis of first come, first served. Participants will have to arrange and pay their own travels, but there will be no charges for registration and accommodation.

Speakers: T Boon, Brussels; P Farrell, London; J Folkman, E Kieff, Boston; J Gordon, I MacLennan, G Niedobitek, A Rickinson, Birmingham; W Hammerschmidt, Munich; IT Magrath, Bethesda; MG Masucci, Stockholm; CJLM Meijer, Amsterdam; C Melief, Leiden; KW Moore, Palo Alto; M Ptashne, J Strominger, Cambridge MA; V Rotter, Rehovot; L Rymo, Gothenburg; SS Speck, St Louis; H Stein, Berlin; T Tursz, Villejuif and others.

Organizers: George Klein and Ingemar Ernberg, Microbiology and Tumor Biology Center, Karolinska Institute, Stockholm, Sweden.

Applications before November 30 to: Marie Bohm, Symposium Coordinator, MTC, Karolinska Institute, Box 280, S-171 77 Stockholm, Sweden (fax: +46 (8) 33 04 98).



**THE CLEVELAND CLINIC FOUNDATION
NEUROPATHOLOGIST**

The Cleveland Clinic Foundation is seeking a Board-certified Neuropathologist to fill a position at the Assistant to Full Staff level, with joint appointments in the Departments of Pathology and Neurosciences. Applicant must have an independent research program, and will be expected to devote 20% effort to diagnostic neuropathology. Competitive salary, generous start-up funds, and excellent opportunities for interactions with programs in the Departments of Neurology, Neurosurgery, and Neurosciences are available. Neuroscience programs at The Cleveland Clinic Foundation are undergoing a rapid growth phase, with several new Staff appointments planned in the near future. Candidate should send CV, name and fax number of three references, and brief statement of research interest to: Dr. Bruce D. Trapp, Chairman, Department of Neurosciences - NC/30, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, Ohio 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

**THE CLEVELAND CLINIC FOUNDATION
NEUROSCIENCES FACULTY**

Department of Neurosciences, The Cleveland Clinic Foundation Research Institute, seeks an outstanding candidate to fill a Faculty Position at the Assistant to Full Staff level. Applicant must have a Ph.D. and/or M.D., an active independent research program and utilize state-of-the-art techniques to investigate neuronal function as it relates to the pathogenesis of epilepsy. Competitive salary and generous start-up funds are available. Epilepsy programs in the Departments of Neurology and Neurosurgery are very active and provide an excellent opportunity for collaborative studies. The Department of Neurosciences is undergoing a rapid growth phase with several new Staff appointments planned in the near future. Candidates should send CV, name and fax number of 3 references, and brief statement of research interests to: Dr. Bruce D. Trapp, Chairman, Department of Neurosciences - NC/30, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, Ohio 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

New York Chiropractic College, an independent professional college, is located on a beautiful campus in Seneca Falls in the Finger Lakes region of upstate New York. The College invites applicants for the following positions:

DIRECTOR OF RESEARCH

The Director of Research reports to the Dean of Academic Affairs and provides department status reports as required. Responsible for supervision of the research facility, human performance lab, and research equipment; facilitates research sanctioned by the College and monitors ongoing projects; chairs the College Research Committee (CRC) as a non-voting member; serves as advisor and executive secretary to Institutional Review Board (IRB); coordinates processes necessary for funding, initiation completion and reporting and publication of research; and is responsible for submission and administration of Departmental budget. Candidates must possess a D.C., M.D., Ph.D. with a minimum of 2 years' teaching experience in research administration.

**ASSISTANT OR ASSOCIATE
PROFESSOR OF ANATOMY**

The New York Chiropractic College is seeking an Assistant/Associate Professor of Anatomy. To teach all the disciplines of gross human anatomy extremities, thorax, abdomen, pelvis, perineum, head, and neck anatomy both lectures and laboratory. Candidates must possess a Ph.D. in Anatomical Sciences, M.D., or D.C., with a minimum of 5 years' teaching experience in gross anatomy in professional schools.

Interested candidates should send a resume and letter of application with salary requirements (noting position of interest) to: New York Chiropractic College, P.O. Box 800, Seneca Falls, NY 13148, Attn: Robynn McPartlin, Director of Human Resources. New York Chiropractic College is an Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITIONS
NORTHEASTERN UNIVERSITY**

The Department of Biology invites applications for two **TENURE-TRACK POSITIONS**. Qualifications for these positions include a Ph.D. degree, postdoctoral experience, and demonstrated achievement in effective teaching at the undergraduate and graduate levels.

1) BIOCHEMISTRY, CELL AND MOLECULAR BIOLOGY. This position is open to candidates at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** levels. The successful candidate will be expected to conduct an innovative research program in a relevant discipline, to attract significant external grant support, and to teach in areas relevant to his/her expertise. Individuals applying at a rank above Assistant Professor must already have significant, transferable grant support.

2) MARINE ECOLOGY. The successful candidate for this **ASSISTANT PROFESSOR** position, who will be located at Northeastern's Marine Science Center in Nahant, will be expected to establish an externally funded research program in marine ecology. Preference will be given to field-oriented candidates who can exploit the invertebrate resources of the Gulf of Maine and Boston Harbor. Teaching opportunities include participation in the East/West Marine Biology Program (Jamaica and Boston locations) and in the departmental curricula.

Applicants should send a curriculum vitae, a research plan and pertinent reprints, and should arrange to have at least three letters of reference forwarded independently, to: **Biology Faculty Search Committee, 414 Mugar Building, Northeastern University, Boston, MA 02115.** Review of applications will begin on December 1, 1994. *Northeastern is an Equal Opportunity/Affirmative Action Title IX University. Women and minority group members are especially encouraged to apply.*

**POSITION ANNOUNCEMENT
ASSISTANT PROFESSORS
MOLECULAR BIOLOGIST WITH
INTERESTS IN AGING
AND
MOLECULAR BIOLOGIST**

The Department of Physiology at the University of Kentucky College of Medicine invites applications for 2 tenure track positions at the Assistant Professor level. One position will be sponsored jointly by the Sanders Brown Center on Aging and the Department of Physiology and will be dedicated to an individual who has expertise in the molecular biology of aging. We seek individuals for both positions who will establish a strong research program investigating physiological functions at the molecular level and participate in our teaching programs. To complement existing strengths, candidates studying the nervous, endocrine, renal, respiratory or cardiovascular systems will be given special consideration, although outstanding candidates in other areas will also be considered. Applicants must have a Ph.D. or M.D. and at least three years of postdoctoral experience. Interactions with other faculty within the College of Medicine, School of Biological Sciences, College of Agriculture, Sanders Brown Center on Aging, the Markey Cancer Center and the Tobacco and Health Research Institute provide a stimulating research environment and ample opportunity to collaborate with other researchers.

Applicants should send curriculum vitae, a detailed statement of past experience, future research plans and have letters from three references sent to: **Dr. Phyllis M. Wise, Chair, Department of Physiology, College of Medicine, University of Kentucky, Lexington, KY 40536-0084.** Review of applications will begin on November 30, 1994.

Women and minority candidates are encouraged to apply. The University of Kentucky is an Affirmative Action/Equal Opportunity Employer.

Fisons Pharmaceuticals is a worldwide leader in the development of pharmaceutical products with research facilities in both the US and Great Britain. As part of our commitment to expand our US-based research operations in Rochester, NY we are currently looking for creative, highly motivated individuals for the following positions:

BS/MS SCIENTIST IN MOLECULAR NEUROPHYSIOLOGY

Immediate opening for a Research Assistant in the Department of Biology. Applicants with experience in all aspects of expression and recording of voltage and ligand-gated ion channels in *Xenopus* oocytes are encouraged to apply. Research will be focused on developing mechanism-based therapies for neurodegenerative diseases and will closely collaborate with neurophysiologists and other neuroscientists in attaining this goal.

The ideal candidate will possess a BS/MS in the Life Sciences with at least 2 years' experience in voltage-clamp recording from oocytes. Applicant will be responsible for determining the effects with those of compounds at specific channels and for correlating their effects with those *in vitro* and *in vivo* disease models.

SENIOR SCIENTIST IN STROKE RESEARCH

Immediate opening for Senior Scientist in the Department of Biology. Applicants with experience with surgical models of stroke, especially focal models, are encouraged to apply. Research will be focused on using such models in developing mechanism based therapies for neuroprotectant drugs in stroke and other neurodegenerative disorders and will be highly collaborative in nature.

The ideal candidate will possess a Ph.D. in an appropriate Life Science discipline (e.g., neuroanatomy, neuropharmacology, psychology) and at least two years' postdoctoral experience and a strong background in neuroanatomy and neurosurgery involving focal and global models of stroke. Additional experience in the histological and behavioral evaluation of stroke damage would be an asset. The applicant will be expected to work at the bench level conducting surgery as well as directing the research of others. Excellent oral and written communication skills and the ability to work independently and interactively in a multidisciplinary environment are required.

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In an expanding effort to develop novel therapeutics for inflammatory and autoimmune diseases, our Immunoscience Research Area has *in vitro* and *in vivo* research positions available at the Research Investigator and Associate Scientist levels. The ideal candidates will be team-oriented individuals with a deep interest in drug discovery. For the *in vitro* positions, experience with cellular and biochemical measures of T lymphocyte activation is desired. Candidates for the *in vivo* positions should have a research background in models of inflammation and/or autoimmune disease.

***In Vitro* Research Leader...**We require a Ph.D. in Immunology, 6+ years of industrial research experience, and proven ability to supervise cellular immunology research toward drug discovery. We also require a track record of innovative research, and strong communication skills. **Job# KM74083A.**

Research Investigators...We require a Ph.D. in Immunology along with 3+ years of postdoctoral research training, preferably in drug discovery. Strong supervisory and communication skills are essential. **Job# KM74083.**

Associate Scientists...We require an MS, or a BS with 2+ years of immunology or related research experience. **Job# KM74082.**

NEUROSCIENCE RESEARCH

Group Leader...We are seeking a Ph.D. biologist to lead a group of 5 Ph.D. and associate scientists working within a multidisciplinary project team investigating novel approaches to neuroprotection and nerve cell death.

This position requires a Ph.D. with 6+ years of postdoctoral experience in biochemistry, cell and molecular biology, and pharmacology. We also require research experience in neuropharmacology, preferably related to acute neurodegenerative diseases and epilepsy. A strong record of accomplishments, as evidenced by publications, and supervisory experience is essential. A background in pharmaceutical or drug discovery research is preferred. **Job# EK73700.**

Research Assistant...The successful candidate will assist in applying behavioral and other *in vivo* techniques to investigate new approaches to neuroprotection.

We require an MS in neuropsychology, pharmacology, or neuroscience or related field, or a BS in a biological science along with 2+ years of lab experience. We also require experience with research using behavioral and other *in vivo* techniques, as well as strong interpersonal and communication skills. Knowledge of neurochemistry, neurophysiology, and statistics would be an advantage. **Job# DB73700A.**

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Stuart Decker: EGF receptor processing; receptor-effector interactions; regulation of receptor regulation by phosphorylation.

David Dudley: Peptide receptor signalling mechanisms; lipid mediators; kinase targets.

Dean Lockwood: Insulin receptor processing and function.

Alan Saltiel: Mechanism of insulin action; lipid-protein interactions in membranes; protein kinases and phosphatases.

Sherrie Tafuri: Transcriptional regulation in insulin signaling and adipocyte differentiation.

Applicants should be recent MD or PhD graduates with a strong background in molecular and cellular biology, biochemistry, pharmacology, physiology or a related area. However, the overall ability, enthusiasm and motivation are more important than the precise nature of previous experience. Interactions with our colleagues at nearby University of Michigan and other academic institutions are encouraged. Interested scientists should send a CV and list of references to **Human Resources, Box JDM-ST, PARKE-DAVIS Pharmaceutical Research Division, 2800 Plymouth Road, Ann Arbor, MI 48105.** "Smoke-Free Work Environment"



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Simon Fraser University, located on top of Burnaby Mountain in Greater Vancouver, is renowned for the high quality of its programs. The School of Kinesiology has the mission to study human structure and function and their relation to health and movement. About 400 students are enrolled in the B.Sc. program in Kinesiology and about 60 graduate students are enrolled in the M.Sc. or Ph.D. programs.

A successful candidate for this position will be expected to have postdoctoral experience, establish an independent research program, and teach at the graduate and undergraduate level. Evidence of excellence in both research and teaching at university level are essential prerequisites.

To apply, please submit by 15 December 1994 your curriculum vitae, 3 publications that you consider most important, and the name, address and telephone of 3 references, to:

J.A. Hoffer, Ph.D., Director, School of Kinesiology, Faculty of Applied Sciences, Simon Fraser University, Burnaby, British Columbia V5A 1S6, Canada.

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and Permanent Residents. Simon Fraser University is committed to the principle of equity in employment and offers equal employment opportunities to qualified applicants. All appointments are subject to budgetary authorization.



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Opportunities are also available for a laboratory assistant with a BS/MS or equivalent in a biological science, plus laboratory research experience, especially in the areas described above.

For confidential consideration, please send your curriculum vitae and the names of three references to: Code: DB002, Employee Resources Dept., Pfizer Inc., Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer. MF/DV.



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The position is located in Waimanalo, Hawaii. Salary is \$40,298 (GS-12) or \$47,920 (GS-13) dependent on qualifications. An additional 22.5% cost of living adjustment is also payable. It is funded for a minimum of two years, with the possibility of an additional two-year extension.

Interested candidates must submit their applications prior to the deadline of December 9, 1994.

For more information about the position, please call toll free 1-800-762-2738. For application procedures and necessary forms please call (612) 370-2200 and reference Notice No. AG-PQ-021. The Federal Government is an Equal Opportunity Employer.

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The University of Kansas Medical Center
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The review of applications and nominations will begin on **December 1, 1994**. Nominations, applications and inquiries should be directed to: Daniel Hollander, M.D., Chair - Search Committee for Executive Vice Chancellor, c/o Office of the Chancellor, 230 Strong Hall, The University of Kansas, Lawrence, KS 66045.

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CHEMISTRY FACULTY POSITIONS AT FLORIDA STATE UNIVERSITY:

The Department of Chemistry invites applications for three tenure-track faculty positions:

- **Biochemistry**— Junior position. Candidates with primary interests in Protein Chemistry, Enzymology, Kinetics and Mechanisms would complement very well our recent additions in Structural Biology. Respond to Prof. T. A. Cross, Chair, Biochemical Faculty Search Committee.
- **Experimental Physical Chemistry**— Senior position. Respond to Prof. S. A. Safran, Chair, Physical Faculty Search Committee.
- **Organic Chemistry**— Senior position. Respond to Prof. M. A. Schwartz, Chair, Organic Faculty Search Committee.

These positions which have anticipated starts in September 1995, or possibly later, amplify a major forward thrust which has already added seven new chemistry faculty in the past two years. Chemistry at FSU is further enhanced by interdisciplinary programs such as the National High Magnetic Field Laboratory, the Supercomputer Computations Research Institute, Structural Biology, the Center for Materials Research and Technology, Molecular Biophysics, Chemical Physics and Nuclear Science. Applicants are expected to conduct a vigorous and prominent research program, and to participate effectively in teaching at all levels. Consideration of applicants will begin immediately and continue until the positions are filled. Please submit a curriculum vitae, statements of research accomplishments and plans, and the names of four references to the appropriate search committee: Department of Chemistry, Florida State University, Tallahassee, FL 32306-3006. *Florida State University is an Affirmative Action/Equal Opportunity Employer and encourages minority and women applicants.*

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Candidate must be prepared to participate in a team oriented environment. Three detailed references required. This position offers both a competitive salary and benefits package. For consideration, please fax or send resume to:

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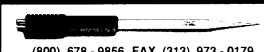


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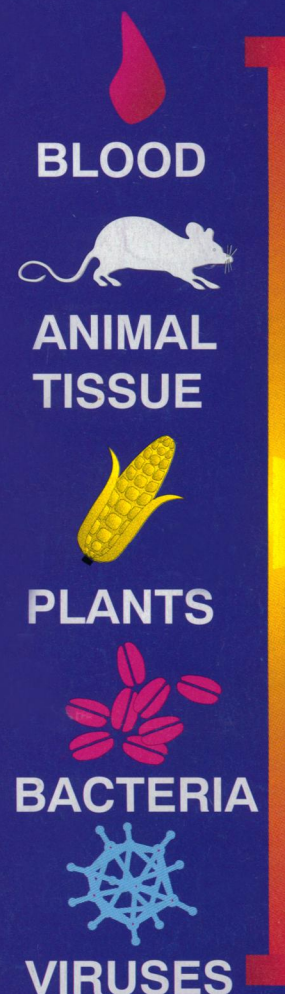
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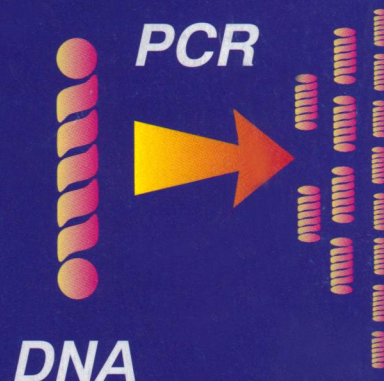
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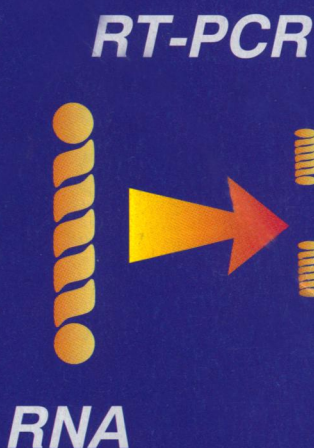
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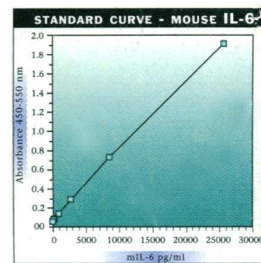
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