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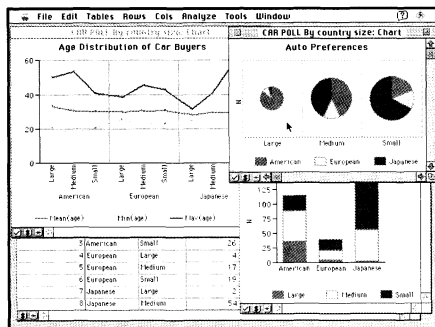
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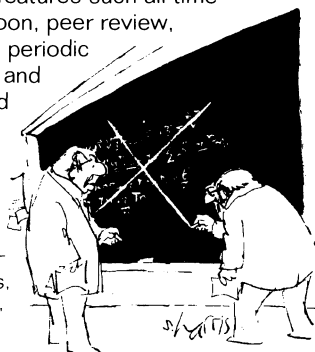
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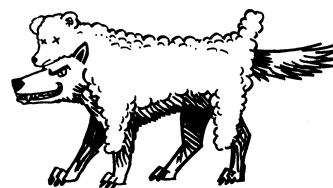
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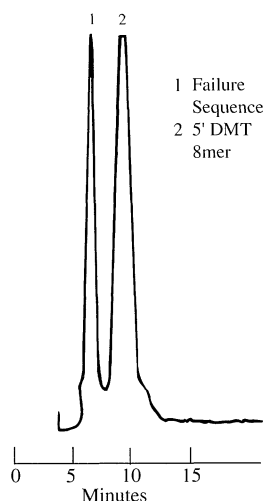
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"Gender and the Culture of Science" SCIENCE 16 April 1993 Reprint

This 2nd annual cover story explores the many issues vital to female scientists and the companies and universities where they work. Are females unique in their approach to science? Are the issues facing American women global or are the barriers and frustrations different in Europe and Japan? Is there a female model for success in science? These questions and more will be raised in this important cover story.

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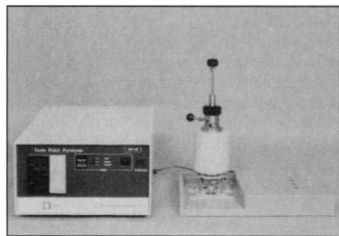
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Somatic Cell Mapping Panels

Mapping panels 1 and 2 of the National Institute of General Medical Sciences' Human Genetic Mutant Cell Repository are available. Mapping panel 1 consists of DNA isolated from 18 human-rodent somatic cell hybrids retaining from 1 to 19 human chromosomes. Mapping panel 2 consists of DNA isolated from 24 human-rodent somatic cell hybrids retaining one or two human chromosomes. All but two of the hybrids retain a single intact human chromosome. **Coriell Cell Repositories. Circle 140.**

Pyrolyzer

Models JHP-3 and JHP-22 Curie Point Pyrolyzers represent state-of-the-art in pyrolysis gas chromatography systems for the analysis of polymers and other nonvolatiles. The heart of the system is in the pyrofoil, in which the sample is heated and pyrolyzed. Twenty different pyrofoils, a series of ferromagnetic alloys, are



available with a temperature range from 160° to 1040°C. Because each ferromagnetic alloy has a precise Curie point temperature, the results obtained with the system are always reproducible. The instrument can be interfaced with almost all commercial gas chromatographs. **DyChrom. Circle 141.**

Antibodies

A panel of seven monoclonal antibodies (mAbs) is available against myelin basic protein, which forms a major part of the myelin sheath covering verte-

brate neurons. The mAbs recognize different epitopes of the molecule and have been used in immunoblotting, immunocytochemistry, and enzyme-linked immunosorbent assay. **Serotec. Circle 142.**

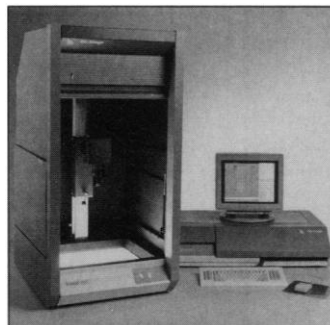
A rabbit polyclonal antibody to angiotensin II type-1 receptor is available. Angiotensin II is a peptide hormone involved in the water and sodium homeostasis of the body. **Chemicon International. Circle 143.**

³³P Nucleotides

New ³³P nucleotides are particularly well suited for molecular biology applications in DNA research, cycle sequencing, and single-strand conformational polymorphism. The stronger emission of ³³P compared with ³⁵S is an advantage for DNA sequencing because autoradiography times can be reduced with no effect on band resolution. The new nucleotides are compatible with the latest protocols for DNA sequencing, polymerase chain reaction, and in situ hybridization. They provide safer handling than ³²P-labeled compounds because energy emission intensity is significantly lower. The shielding of a plastic vial is sufficient to stop most of the energy, allowing high specific activity compounds to be made using routine safety practices. **Du Pont. Circle 144.**

Gel Scanner

The Bio Image 110S Gel Scanner System lets researchers rapidly analyze one- and two-dimensional electrophoresis gels and films and create image databases of virtually any size. Images are captured using an enclosed charge-coupled device camera.



The camera scans both autoradiograms and fluorescently stained samples. The enclosure shuts out stray light and enhances the optical range of the camera. Images are analyzed by a powerful SUN workstation. The workstation easily handles the large computer files created by high resolution images. Investigators can create image databases, compare images, and display images of interest on-screen. **Millipore. Circle 145.**

Immunogen Emulsifier Kit

In this simple device for preparing immunogens for injection of animals for monoclonal and polyclonal antibody production, the user draws immunogen into one syringe and adjuvant into another. Then the two syringes are connected to a three-way stopcock and the materials are pumped back and forth to mix and form an emulsion without wasting expensive and difficult-to-produce immunogens. The kit comes in three sizes: 3 ml, 5 ml, and 10 ml. **Generic Immunologicals. Circle 146.**

Silver Stain Kit

Silver staining provides a highly sensitive method of protein and nucleic acid detection after separation with polyacrylamide gel electrophoresis. Sensitivity can be 50 to 100 times greater than Coomassie brilliant blue (CBB)

staining. Typical staining procedures often involve time-consuming work and difficult manipulations, but Wako Silver Stain Kit II avoids these problems. With the kit's simple preparation and manipulation, staining is completed within an hour after electrophoresis. No washing is required after fixation. The kit can be used to double-stain with CBB. The kit contains no harmful heavy metals. **Wako Bio-Products. Circle 147.**

Literature

The Complete Solution is a detailed manual that describes the complete range of systems available for nucleic acid labeling and detection and that provides method guides with troubleshooting. In addition to describing the principles of both radioactive and nonradioactive labeling and detection, the manual covers the best choice of probe and label (radioactive and nonradioactive) for specific applications and details the methods currently employed for the quick and accurate blotting of gels. **Amersham International. Circle 148.**

Sorbent Extraction Technology Handbook is a reference guide on sample preparation issues ranging from trace level to industrial scale chemical isolation. Chapters cover bonded silicas, sorbent extraction, sorbent isolate interactions, sorbent selection and testing, and advanced method development. **Varian Associates. Circle 149.**

1994 Reagent Catalog lists more than 1200 products, including monoclonal and polyclonal antibodies, purified antigens (highly pure and semipure), affinity-purified antibodies, precipitating antibodies, custom standards and calibrators, conjugates and precursors, purified immunoglobulins, chromogenic substrates, and enzyme-labeled antibodies. **Fitzgerald Industries International. Circle 150.**

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POSITIONS OPEN

CELL AND MOLECULAR BIOLOGIST WEST VIRGINIA UNIVERSITY (WVU)

The Department of Biology at West Virginia University invites applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level, available 16 August 1994. A Ph.D. and a minimum of two years of postdoctoral research experience are required. The Department of Biology is the recipient of a grant from the Howard Hughes Medical Institute to enhance undergraduate education and research in the area of Cell and Molecular Biology. We are interested in teacher-scholars studying contemporary problems in **cellular and molecular biology**. The successful applicants will be expected to participate effectively in teaching undergraduate and graduate students and to establish a strong, independent, externally funded research program. Please submit curriculum vitae, a brief description of current and future research interests, a statement of teaching interests, and the names and telephone numbers of five individuals who are willing to provide letters of evaluation to: **Biology Search Committee, P.O. Box 6057, Biology Department, West Virginia University, Morgantown, WV 26506**. Review of applications will begin on January 3, 1994. *WVU is an Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.*

ASSISTANT OR ASSOCIATE PROFESSOR BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Biochemistry at the University of Mississippi Medical Center invites applications for a tenure-track position. The department is well equipped and has strong research programs in eukaryotic gene expression, ribosome biogenesis, replication, nucleic acid biophysics, enzymology and protein chemistry. The successful applicant is expected to establish or have an independent, high-quality, funded research program and to participate in the training of medical, dental and graduate students. Special consideration will be given to candidates in areas that complement current research programs. Send curriculum vitae, an outline of future research plans and the names of three references to: **Dr. Mark Olson, Chair, Department of Biochemistry, The University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. Equal Opportunity Employer, M/F/D/V.**

POPULATION BIOLOGIST ILLINOIS STATE UNIVERSITY

The Department of Biological Sciences seeks a population biologist for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position. We especially encourage applications from candidates whose research/teaching interests include applying population genetic principles to natural populations. The successful candidate will participate in our **CONSERVATION BIOLOGY** sequence, teach at the undergraduate and graduate level, supervise M.S. and Ph.D. students, and establish an extramurally funded research program. Applications should include curriculum vitae, statement of research and teaching interests, and three letters of recommendation. Submit applications to: **Dr. Charles F. Thompson, Chair, Population Biologist Search Committee, Department of Biological Sciences, Illinois State University, Normal, IL 61761-6901**. Deadline to assure review of application is 15 January 1994. *Illinois State University is an Equal Opportunity/Affirmative Action Employer.*

PLANT ECOLOGIST UNIVERSITY OF TEXAS, AUSTIN

The Department of Botany, University of Texas, invites applications for a tenure-track position in **ecology** at the **ASSISTANT PROFESSOR** level, to begin fall 1994. We are particularly interested in applicants whose research is in the area of physiological or community ecology, but will consider individuals in other areas of plant ecology. We are also interested in applicants with experience in conservation biology. The successful applicant will be expected to develop a vigorous research program, obtain external funding, and teach graduate and undergraduate students. Postdoctoral experience is preferred. Applicants should send curriculum vitae, statement of research interests, the names of three references, and no more than three reprints, to: **Dr. Norma Fowler, Ecology Search Committee, Department of Botany, University of Texas, Austin, TX 78713** by December 8, 1993. *UT-Austin is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

NEUROBIOLOGIST

Tenure-track **ASSISTANT/ASSOCIATE PROFESSORSHIP** in Department of Biology and WAMI Medical Program at Montana State University. Responsibilities include teaching neuroscience to medical students, anatomy and physiology to undergraduates, and establishment of an independent research program. For a complete position description and application instructions, please contact: **Dr. Stephen Guggenheim, WAMI Medical Program, Montana State University, Bozeman, MT 59717-0308; Telephone: 406-994-4411; FAX: 406-994-4398**. *Montana State University is an Affirmative Action/Equal Opportunity Employer. Americans with Disabilities Act and Veterans Preference procedures are followed.*

Southeastern Louisiana University Department of Biological Sciences

The Department of Biological Sciences seeks applicants for a tenure-track position available August 1994 at the **ASSISTANT PROFESSOR** level to join an active program in environmental microbiology. Teaching responsibilities include undergraduate/graduate courses in microbiology and in the area of specialty. The selected individual must have an interest in science education in environmental biology. Ph.D. required; postdoctoral experience preferred. Salary is commensurate with degrees and experience. Applications will be accepted until the position is filled. Send letter of application, résumé, statement of research and teaching interests and names of three references to: **Dr. Gary Childers, Department of Biological Sciences, SLU Box 814, Hammond, LA 70402**. *SLU is an Affirmative Action/ADA/Equal Employment Opportunity Employer.*

UNIVERSITY OF TEXAS AT ARLINGTON DEPARTMENT OF BIOLOGY

Applications are sought for tenure-track **ASSISTANT PROFESSOR** positions in **Cell and Molecular Biology**. Those with interests in the areas of development, microbiology or systematics using molecular and/or genetic techniques are encouraged to apply, but candidates with outstanding research achievements in other areas will be considered. Applicants must have a Ph.D., and postdoctoral experience is preferred. The successful candidate will be expected to participate in undergraduate and graduate education and to establish a vigorous research program. The Department of Biology offers B.S., M.S. and Ph.D. degrees. The University of Texas at Arlington, located between Dallas and Ft. Worth, is the second largest university in the University of Texas System. Send curriculum vitae, representative reprints, statements of teaching and research interests, and names, addresses, and telephone numbers of three references to: **W. C. McDonald, Search Committee Chair, Department of Biology, Box 19498, The University of Texas at Arlington, Arlington, TX 76019-0498**. Evaluation of applications will begin on January 21, 1994. *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN STRUCTURAL BIOLOGY

Applications are invited for a tenure-track faculty position at the **ASSISTANT or ASSOCIATE PROFESSOR** level in the Department of Biochemistry of the Medical College of Wisconsin. We are specifically looking for individuals with expertise in **X-ray crystallography or a related area of structural biology**. The successful applicant will join a well-funded department and will complement existing molecular, structural, and mechanistically oriented programs by establishing an independent research group. The appointment will also require participation in the department's graduate and medical education programs. In addition to start-up funds, the department will provide state-of-the-art X-ray diffraction, molecular, graphics, and computing facilities.

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**Structural Biology Search Committee
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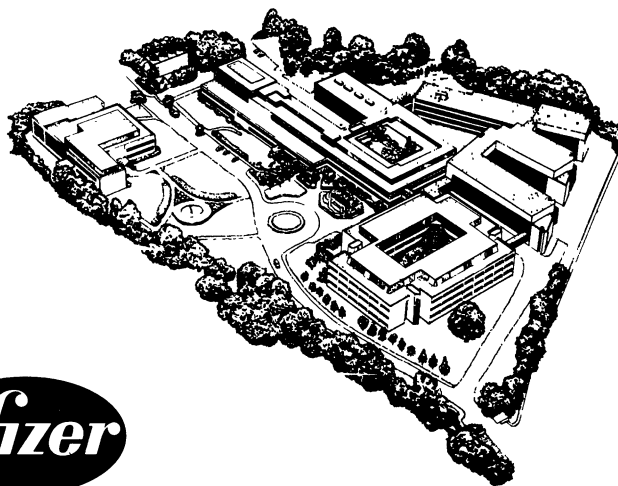
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MOLECULAR NEUROBIOLOGIST. RESEARCH ASSISTANT PROFESSOR position is available for the study of gene transcription/expression and cell cycle control in brain tumors. Candidates are invited to submit curriculum vitae, a statement of research interests, and the names of 3 references to: **S. R. Vandenberg, M.D., Ph.D., Laboratory of Molecular Neuro-oncology, Department of Pathology, Box 214, University of Virginia Health Sciences Center, Charlottesville, VA 22908.** *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

CALIFORNIA STATE UNIVERSITY, FULLERTON, DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY invites applications for a full-time, tenure-track faculty position at the **ASSISTANT PROFESSOR** level in biochemistry, commencing in August 1994. This position offers an excellent opportunity for a balanced emphasis on both teaching and research. Faculty are expected to develop a productive research program in biochemistry and to be committed to excellence in teaching at both the undergraduate and Master's levels. Our program encourages collaboration both within the Department and the Institute for Molecular Biology and Nutrition. We are interested in an individual with postdoctoral experience and a strong background in biochemistry. Send curriculum vitae, a summary of research interests, and teaching philosophy and preferences, and arrange for three letters of recommendation to be sent before December 1, 1993, to: **Dr. Bruce Weber, Department of Chemistry and Biochemistry, CSU, Fullerton, Fullerton, CA 92634.** *Affirmative Action/Equal Opportunity Employer. Women and minority candidates are particularly encouraged to apply.*

ASSISTANT PROFESSOR OF MICROBIOLOGY (tenure-track). Teaching includes introductory microbiology, microbial physiology or course in area of expertise and a graduate course. Vigorous research program, an aggressive pursuit of extramural support, and supervision of graduate students required. Ph.D. and postdoctoral or comparable experience required; teaching experience preferred. Send letter of application, curriculum vitae, statement of research goals, and three letters of recommendation to: **Microbiology Search Committee, Division of Biological Sciences, University of Montana, Missoula, MT 59812-1002.** Review begins 3 January 1994. *Women and minorities are strongly encouraged to apply. Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION—ASSISTANT PROFESSOR in Computational Chemistry, Chemistry Department, Université de Montréal and CERCA. Experience in one of the following fields would be an asset: quantum chemistry, (bio)molecular modeling, theory of solutions, molecular dynamics. First-class computational facilities. Opportunities for interactions with Quebec pharmaceutical industry. Expected to teach in French after one year. Position available on January 1, 1994; other dates acceptable. Submit curriculum vitae, a research proposal, and names of three referees, as soon as possible to: **Chairman, Chemistry, Université de Montréal, P.O. Box 6128, Montréal, Québec, H3C 3J7, Canada.** *UdeM is an Equal Opportunity Employer and encourages applications from women. In accordance with Canadian immigration laws, this advertisement is addressed in the first instance to citizens and permanent residents of Canada.*

RESEARCH ASSISTANT PROFESSOR—Collaborate with NIH-funded studies of humoral growth factor(s) in hypertension thickening arteriolar walls [see *Circ. Res.* 62, 1001 (1988), and 71, 1143 (1992); and *FASEB J.* 7, A548 (1993)]. Applicant should have Ph.D., preferably in cell biology (would also consider Ph.D. in biochemistry or pharmacology with major cell biology experience), and postdoctoral training. Extensive experience with cell culture necessary, preferably primary cultures of vascular smooth muscle and/or endothelial cells. Some experience in molecular biology desirable. Beginning salary up to \$40,000. Send curriculum vitae by December 10, 1993, to: **Henry W. Overbeck, M.D., Ph.D., Departments of Medicine and Physiology, West Virginia University Medical Center, Morgantown, WV 26506-9157.** *Equal Employment Opportunity/Affirmative Action.*

FACULTY POSITION

The Department of Medical Microbiology and Immunology at the University of Wisconsin-Madison invites application for a tenure-track (12-month) position at the rank of **ASSISTANT, ASSOCIATE or FULL PROFESSOR.** Applicants must have a Ph.D. and/or M.D. degree with solid training, research and experiences and interests in molecular immunology and/or the molecular basis of mycotic or bacterial pathogenesis. The successful candidate will be expected to develop and maintain strong independent research in the field of molecular immunology, mycology or bacteriology and to participate in teaching medical and graduate students. Starting date for this position is negotiable. Applicants should send curriculum vitae, a brief outline of current and future research plans and the names of three references to: **Dr. Edward Balish, Ph.D., Professor, Department of Medical Microbiology and Immunology, The University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53706.** *The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION IN NATURAL RESOURCE ECONOMICS

The Rosenstiel School of Marine and Atmospheric Science (RSMAS) of the University of Miami seeks a tenure-track **ASSISTANT or ASSOCIATE PROFESSOR** in the Division of Marine Affairs for the fall 1994. The faculty member will hold a joint appointment in the University of Miami's Department of Economics. The successful candidate must be specialized in natural resource or marine economics, teach at the graduate and undergraduate levels, and undertake high-quality research. Candidates should have the Ph.D. or have completed this degree within the year. Applicants should submit curriculum vitae, 3 letters of recommendation, graduate transcript, and evidence of teaching and research abilities by December 15, 1993, to: **Dr. Daniel Suman, Chair, Search Committee, RSMAS Marine Affairs, 4600 Rickenbacker Causeway, Miami, FL 33149.** *The University of Miami is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT OR ASSOCIATE PROFESSOR OF HUMAN NUTRITION OR NUTRITION EDUCATION. Develop independent, extramurally funded research program and teach and advise at undergraduate and graduate levels. Contact: **Michelle Gobeley, Search Secretary, Department of Food Science and Nutrition, 1334 Eckles Avenue; University of Minnesota; St. Paul, MN 55108; Telephone: 612-624-1236.** *The University of Minnesota is an Equal Opportunity Educator and Employer.*

POSITIONS OPEN

BIOCHEMISTRY FACULTY POSITION. The Department of Chemistry at Kennesaw State College invites applications for a tenure-track position in biochemistry to begin fall 1994. The position will be at the **ASSISTANT PROFESSOR** level. Candidates who also possess training in analytical chemistry are particularly encouraged to apply. The successful applicant will have the Ph.D. degree and will be expected to develop excellence in teaching and to participate in research with undergraduates. Kennesaw State College is located just north of Atlanta and has an enrollment of nearly 13,000 students. The chemistry department offers an ACS-certified B.S. degree to approximately 80 majors. A new science building is scheduled for occupancy in the summer of 1995. Applicants should submit curriculum vitae and a statement of teaching and research philosophy and should arrange to have three letters of recommendation sent to: **Dr. Cynthia Brittain, Department of Chemistry, Kennesaw State College, P.O. Box 444, Marietta, GA 30064.** Closing Date: December 6, 1993. *Women and minorities are encouraged to apply. Kennesaw State College is an Affirmative Action/Equal Opportunity Employer.*

TWO ASSISTANT PROFESSOR POSITIONS AUBURN UNIVERSITY

The Department of Botany and Microbiology invites applications for two tenure-track positions to be filled at the Assistant Professor level. The Ph.D. is required and postdoctoral experience would be preferred. For one position, preference will be given to applicants with experience in microbial food technology, industrial microbiology, or environmental microbiology. For the other position, preference will be given to a plant scientist with experience in environmental biology. The successful candidates will be expected to establish extramurally funded research programs, to interact with other scientists in the department and the Food Technology Institute (microbiologist), and to participate in departmental undergraduate and graduate teaching programs. Review of applications will begin January 2, 1994, and will continue until a suitable candidate is identified. Applicants should submit curriculum vitae, statement of teaching and research interests, and the names, addresses, and telephone numbers of three references to: **Joe H. Cherry, Professor/Head, Department of Botany and Microbiology, 122 Life Science Building, Auburn University, AL 36849-5407.**

Auburn University is an Equal Opportunity Employer and encourages applications for women and minorities.

TENURE-TRACK FACULTY POSITION DEPARTMENT OF PHARMACOLOGY BAYLOR COLLEGE OF MEDICINE (BCM)

The Department of Pharmacology, Baylor College of Medicine, is seeking to fill a tenure-track **ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR** position. The candidate should have a Ph.D. and/or M.D., postdoctoral experience, and a strong commitment to excellence in research and teaching. Evidence of scientific accomplishment and success in attaining extramural funding are essential.

Salary is competitive, and based on experience and qualifications. Candidates should send curriculum vitae and a list of three references to: **Lynn C. Yeoman, Ph.D., Faculty Search Committee, Department of Pharmacology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.** *BCM is an Affirmative Action/Equal Opportunity Employer.*

BIOCHEMISTRY/BIOORGANIC FACULTY POSITION: The Department of Chemistry at the University of Toledo invites applications and nominations for a tenure-track faculty position in the field of biological chemistry broadly defined. While applicants will be considered for appointment as **ASSISTANT PROFESSOR**, applications from candidates for appointment at advanced rank will also be accepted. An outstanding record of achievement in research as well as a clear commitment to excellent instruction in chemistry at all levels will be required. Each applicant should send a detailed résumé, the names of three or more references, and a short synopsis of future research plans to: **Professor Max O. Funk, Jr., Department of Chemistry, University of Toledo, 2801 West Bancroft Street, Toledo, OH 43606.** Review of applications will begin on December 1, 1993, and continue until the post is filled. *The University of Toledo is an Equal Opportunity/Affirmative Action Employer. Applications from qualified women and underrepresented minority candidates are especially encouraged.*

National Cancer Institute
National Institutes of Health
Public Health Service

Endocrinologist

The Endocrinology Section, Metabolism Branch, National Cancer Institute, seeks an outstanding candidate with M.D. or Ph.D. for a non-tenure track position to participate in a research program on signaling by the insulin-like growth factor-I receptor. The candidate should have at least 5 years of research publications in this area. Familiarity with techniques of cell biology, protein purification and characterization and molecular biology is required. Starting salary range \$37,000 to \$53,000. USA citizenship required. Interested candidates should submit curriculum vitae, several reprints, and names of three references to:

Dr. Peter Nissley
National Institutes of Health
9000 Rockville Pike
Building 10, Room 4N1215
Bethesda, MD 20892

Applications must be received by
December 15, 1993.



NIH is an Equal Opportunity Employer



MOLECULAR VIROLOGY

The Division of
Molecular Virology
at Baylor College
of Medicine invites

applications for a tenure-track faculty position. Rank is open. An established research program is desirable. Of special interest are topics on viral pathogenesis and molecular biology of viral replication. Applicants should have a Ph.D. or M.D./Ph.D., postdoctoral experience in virology, and demonstrated research productivity. Applicants are expected to pursue an independent research program and participate in graduate training. Faculty activities focus on viral replication, gene expression, pathogenesis, oncogenes, and disease prevention. This is an excellent opportunity to join an active department with newly renovated laboratories. Send CV, names/addresses of at least 3 references, statement of current research activities and future plans by Dec. 15, 1993, to: Dr. Mary Estes, Recruitment Committee, Division of Molecular Virology, Baylor College of Medicine, Houston, TX 77030.

An EO/AA employer.

MOLECULAR GENETICS

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has three challenging opportunities for Scientists with Molecular Genetic expertise to join the staff of the Department of Molecular Genetics.

Ph.D. Scientist - Molecular Hematologist

As an Associate Senior Investigator, the successful candidate will have responsibility for the new and ongoing research initiatives in collaboration with a multidisciplinary/multinational program team investigating natural and synthetic hematopoietic modulatory agents/cytokines and their application to the development of novel therapeutics.

Qualified candidates will have a Ph.D. or M.D. in a biological science with expertise in experimental hematology, molecular techniques and 2-5 years postdoctoral experience. Experience at the cellular and molecular levels with *in vitro* systems investigating differentiation of hematopoietic (stromal) cells or a research background in the analysis of hematopoietic cytokines/chemokines is preferred. Outstanding applicants with broader backgrounds in aspects of molecular/cellular biology relevant to hematopoiesis will also be considered. Refer to Job #H0238.

B.S./M.S. Scientist - Molecular Hematologist

As an Associate Research Scientist, the successful candidate must have proven experience in RNA/DNA methodologies including recombinant DNA techniques. Proficiency in animal cell culture and transfection procedures is essential. A Bachelor's degree with 2-3 years experience or a Master's degree with 1-2 years experience is required. Refer to Job # CH01.

Postdoctoral Scientist - Molecular Immunology

As a Postdoctoral Scientist in the area of molecular immunology, the selected candidate will join a research team studying the molecular interactions at the cell surface involved in T-cell activation, anergy, and apoptosis and the pathways of consequent signal transduction with a focus on inhibiting T-cell function. The research project will involve functional analysis of certain T-cell proteins through the coupling of mutagenesis with cell-based assays and the identification of novel proteins associated with selected T-cell subtypes.

Candidates should have a Ph.D. in Molecular Biology, Immunology, or related disciplines. Additional qualifications include a strong background in immunology and recombinant DNA technology, publications in peer-reviewed journals, good communication skills, and a desire to work within a multi-disciplinary research team. Refer to Job # H0320.

Our state-of-the-art research facility is located in suburban Philadelphia. We offer a competitive compensation/benefits package, as well as a stimulating work environment in which to grow and excel. For confidential consideration, please send your resume, indicating job number to: SmithKline Beecham Pharmaceuticals, Employment Administrator, PO Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/D/V.



SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.

POSITIONS OPEN

THE AMERICAN UNIVERSITY IN CAIRO FACULTY POSITIONS IN SCIENCE

Applications are invited for faculty openings in Science at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Two physical or biological scientists with a background and interest in history and/or philosophy of science will teach, in English, as half the teaching load, scientific thinking, a general requirement for undergraduate students. The other half of the teaching load will be in either general and modern physics or general and environmental biology, according to each appointee's competence. Ph.D. required. Two-year appointments (renewable) begin September 1994. Rank, salary according to qualifications and experience. For expatriates, housing, roundtrip air travel, plus schooling for two children included. Send letter of application with curriculum vitae to: **Dr. Andrew Kerek, Provost, The American University in Cairo, 866 United Nations Plaza, Suite 517-B, New York, NY 10017**, preferably before December 1, 1993.

FACULTY POSITIONS

Four tenure-track **ASSISTANT PROFESSOR-SHIPS**—August 1994, contingent upon funding. Ph.D. required. Candidates must have strong commitments to undergraduate education and establish research programs involving undergraduate and M.S. students.

WILDLIFE BIOLOGIST. Teaching responsibilities include: Wildlife Management, Mammalogy and Principles of Ecology. Chair: **Michael Goodrich (217/581-6388)**.

PARASITOLOGIST. Teaching responsibilities include: Parasitology, Immunology, and Animal Diversity. Chair: **William James (217/581-3319)**.

POPULATION GENETICIST. Teaching responsibilities include genetics courses for majors and non-majors. Research in experimental population genetics using molecular techniques is preferred. Chair: **Judith James (217/581-6387)**.

FISHERIES BIOLOGIST. Teaching responsibilities include: Fish Ecology and Management, Ichthyology, and Environmental Biology. Chair: **Kipp Kruse (217/581-3363)**.

Applications shall include: letter of application, curriculum vitae, transcripts, three letters of reference, and a statement of teaching and research interests. Submit by 1 December 1993 to the appropriate: **Search Chair, Department of Zoology, Eastern Illinois University, Charleston, IL 61920. FAX: 217/581-2722.** *Eastern Illinois University is an Equal Opportunity/Equal Access/Affirmative Action Employer committed to achieving a diverse community.*

INSTITUTE for AGRICULTURAL BIOTECHNOLOGY National Chung Hsing University TAIWAN

Applications are invited for **DIRECTOR, PROFESSORS, ASSOCIATE PROFESSORS and POST-DOCTORAL POSITIONS** in the field of Agricultural Biotechnology, Biochemistry, or Plant Molecular Biology. Responsibilities will begin on August 1, 1994. Applicants should send curriculum vitae, recommendation letters and research proposal before December 31, 1993, to: **Dr. Yau-Heiu Hsu, Agricultural Biotechnology Laboratories, National Chung Hsing University, Taichung, Taiwan 40227 Republic of China.**

ANIMAL PHYSIOLOGIST

ASSISTANT PROFESSOR. Applications are invited for a tenure-track position in the Department of Biological Sciences at Butler University. The position emphasizes enthusiasm for high-quality undergraduate teaching as well as directing undergraduate research. The successful candidate will teach a course in animal physiology. In addition, all faculty participate in the introductory biology course. An individual research laboratory and start-up funds are provided. Conditions for continuing research are excellent, and generous in-house research funds are available. Candidates must have a Ph.D. degree. Applicants should submit curriculum vitae, transcripts, statement of teaching and research interests, and three letters of reference to: **Dr. J.W. Berry, Department of Biological Sciences, Butler University, Indianapolis, IN 46208.** Screening of applicants will begin immediately and will continue until a suitable applicant is found. *Butler University is an Equal Opportunity and Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR: Behavioral Neuroscience/Physiological Psychology. A regular tenure-track appointment beginning September 1994. Candidates must be able to establish a strong, fundable research program and also be committed to quality undergraduate and graduate instruction. Successful experience in undergraduate teaching is highly desirable. Preference will be given to candidates in the general area of hormones and behavior and candidates who also can add breadth to the regular undergraduate curriculum in behavioral neuroscience. *Dartmouth College is an Equal Opportunity Employer with an Affirmative Action Plan. Women and members of minority groups are encouraged to apply.* Send a letter of application and curriculum vitae and arrange to have at least three letters of recommendation sent by **December 15, 1993** to: **Chair, Physiological Search Committee, Department of Psychology, 6207 Gerry Hall, Dartmouth College, Hanover, NH 03755-3459.**

CELL PHYSIOLOGIST. ASSISTANT PROFESSOR of Biology to teach introductory and upper-division courses including an upper-level course in cell physiology; to participate occasionally in the College's first-year interdisciplinary program; to direct the research of undergraduate students; and to establish an active personal research program. Required: Ph.D., familiarity with molecular techniques, and strong commitment to liberal arts environment. Prefer postdoctoral experience and/or some background in nerve cell physiology. Send application, transcript, and three letters of recommendation to: **F. L. Downs, Department of Biology, The College of Wooster, Wooster, OH 44691**, no later than 15 December 1993. The College is an independent liberal arts college with a commitment to excellence in undergraduate education. *We wish to ensure that the search identifies qualified candidates who are women or members of minorities. Applicants belonging to these groups are encouraged to identify themselves if they wish. Affirmative Action/Equal Opportunity Employer.*

PLANT BIOLOGIST/MICROBIOLOGIST

Tenure-track, **ASSISTANT PROFESSOR** position, beginning fall 1994. Responsibilities include teaching plant biology, microbiology, and non-majors biology, all with laboratory, student advising and directing student research. Ph.D. required. Send letter describing teaching interests, research goals and curriculum vitae to: **Dr. William Hallahan, Chair, Department of Biology, Nazareth College, 4245 East Avenue, Rochester, NY 14618**, by December 3, 1993.

Equal Opportunity/Affirmative Action Employer.

The **UNIVERSITY OF WISCONSIN MEDICAL SCHOOL** seeks an M.D. or M.D./Ph.D. to direct the research and clinical activities of an established adult/pediatric **BONE MARROW TRANSPLANTATION** program. Applicants should have an active research program, preferably in the area of molecular genetics or gene therapy; however, researchers with demonstrated excellence in any related field are welcome to apply. The appointee will be tenured at the **ASSOCIATE PROFESSOR or PROFESSOR** level, and will have substantial protected time, start-up funds, newly constructed laboratory space in the Wisconsin Comprehensive Cancer Center, and ample opportunities for collaboration and joint appointments with the appropriate clinical and basic science departments. Please send a letter of interest, description of research, and letters of reference by **December 31, 1993**, to the head of the search committee: **Lyn A. Thet, M.D.; Department of Medicine; H6/380 Clinical Science Center; 600 Highland Avenue; Madison, WI 53792-3240. (FAX: 608/263-3104).**

The UW-Madison is an Affirmative Action/Equal Employment Opportunity Employer and has an open records law.

ASSISTANT or ASSOCIATE PROFESSOR to work on molecular defects in neurodegenerative human diseases and neurological mutant mice. Requirements include an M.D. with at least five (5) years of relevant postdoctoral experience, demonstrated productivity, and capability of securing extramural support. Applicants must have an interest in CNS degenerative diseases and a strong background in neuropathology (clinical and experimental) as well as in molecular biology. Please send your curriculum vitae to: **James W. Smith, M.D., Professor and Chairman, Department of Pathology and Laboratory Medicine, Indiana University School of Medicine, 635 Barnhill Drive, Room A128, Indianapolis, IN 46202-5120.** *Indiana University is an Equal Opportunity Employer.*

POSITIONS OPEN

MOLECULAR EVOLUTION DEPARTMENT OF BIOLOGY UNIVERSITY OF UTAH

The Biology Department invites applications for a tenure-track position in the general area of molecular evolution. While the available position is at the level of **ASSISTANT PROFESSOR**, more senior applicants will be seriously considered. Applicants should be prepared to conduct a vigorous research program in some aspect of molecular evolution (such as DNA-based taxonomy, evolution of molecular structure or use of molecular methods to pursue any evolutionary topic). We seek someone with expertise in both evolutionary process and molecular biology/computer intensive technology. The Department is a broad, interactive group spanning the entire spectrum of biological research. We seek a colleague who can interact broadly across this community. We seek candidates with strong commitments to both teaching and research. Successful candidates will be expected to contribute to undergraduate courses in biology and to develop advanced offerings in molecular evolution. Interested applicants should submit curriculum vitae, a statement of research interests and copies of recent, representative publications to: **MOLECULAR EVOLUTION SEARCH COMMITTEE, Department of Biology, 201 South Biology, University of Utah, Salt Lake City, UT 84112.** Review of applications will begin December 1, 1993, and will continue until this appointment is made.

The University of Utah is an Affirmative Action/Equal Opportunity Employer. It encourages applications from women and minorities and provides reasonable accommodation to the known disabilities of applicants and employees.

Biology: The University of Tennessee—Chattanooga, beginning August 1, 1994. Two **ASSISTANT PROFESSOR** positions (Full-time, Tenure-track). **Comparative Vertebrate Zoology.** Responsibilities include lectures and laboratories in Comparative Vertebrate Zoology, Human Anatomy, and Physiology, and Introductory Biology. **Microbiology.** Responsibilities include lectures and laboratories in Microbiology, Immunology and Virology, and Introductory Biology. Opportunities may exist for candidates to develop courses in their specialty. Scholarly activity and a research program that involves undergraduate students are expected. Advising undergraduate students and participation in departmental matters are required. Preference will be given to candidates with demonstrated excellence in college or university teaching. Send curriculum vitae, transcripts, and three current reference letters to: **Dr. Charles H. Nelson, Head, Department of Biological and Environmental Sciences, 615 McCallie Avenue, The University of Tennessee at Chattanooga, Chattanooga, TN 37403.** Screening of credentials will begin on November 17, 1993, and will continue until the positions are filled. *The University of Tennessee at Chattanooga is an Equal Employment Opportunity/Affirmative Action/Title IX/section 504/ADA Institution.*

MOLECULAR CELL BIOLOGIST ILLINOIS STATE UNIVERSITY

The Department of Biological Sciences seeks a **MOLECULAR CELL BIOLOGIST** for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position. Applicants should be able to maintain an independent, extramurally funded research program utilizing molecular approaches to cellular processes, be able to teach cell biology and cell physiology, and direct M.S. and Ph.D. candidates. To apply, submit curriculum vitae, statement of research and teaching interests, reprints and 3 letters of recommendation to: **Cell Biology Search Committee, Department of Biological Sciences, Illinois State University, Normal, IL 61790-4120** by January 15, 1994. *Illinois State University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR: Tenure-track position for NMR spectroscopist with research interests in applying NMR to biochemical problems. The successful candidate will have primary responsibility for a Varian VXR 500S and will be expected to pursue independently funded research and to participate in departmental teaching activities. Interested persons should submit curriculum vitae, a summary of research interests, and three letters of recommendation to: **NMR Faculty Search Committee, Department of Biochemistry, University of Kentucky Medical Center, Lexington, KY 40536-0084.**

An Equal Opportunity/Affirmative Action Employer.

UMass Dartmouth

Aquaculture

The Department of Biology of the University of Massachusetts Dartmouth (UMassD) invites nominations and applications for a tenure-track faculty position in Aquaculture. UMassD is one of the five campuses in the University of Massachusetts system and is located within a few minutes of Buzzards Bay. Enrolling approximately 5,200 undergraduates and 400 graduate students, the University is in the process of completing the design/development phase for a Marine Sciences Laboratory in nearby New Bedford, adjacent to which is an existing facility that is being acquired to support aquacultural research. The University is the designated administrative home of the Northeastern Regional Aquaculture Center of the USDA by an act of Congress and receives annual federal funding for its operations.

Candidates should have a solid technical knowledge of and indicators of successful experience in aquaculture research and teaching. Minimum qualifications include:

- a doctorate in a relevant discipline,
- a strong, continuing record of published scientific achievement.

The successful candidate will be expected to teach aquaculture at the undergraduate and graduate levels and to initiate and sustain an active, funded research program. Candidates with contemporary skills supporting the application of molecular biology, genetics, and/or epidemiology to aquacultural problems of shell-fish are preferred. In addition, the successful candidate should be able to communicate well with industry, academic, and government representatives in aquaculture.

Rank and salary are competitive and will be determined by the successful candidate's qualifications and experience. Additional compensation may be realized through grant-supported summer salary. Benefits include a selection of health care and dental plans and a state-wide retirement plan.

Applications should contain a statement of interest, which includes a description of particular individual strengths, a current Curriculum Vitae, and the names, addresses, titles, and phone numbers of references. Review of applications will begin 3 January 1994 and continue until an appointment is made. Effective date of appointment will be 1 July, but is negotiable to accommodate the commitments of the successful candidate.

All communications regarding this position should be addressed to: Dr. Donald S. Douglas, Chair, Search & Screen Committee, Aquaculture Faculty Search, Department of Biology, University of Massachusetts Dartmouth, North Dartmouth, MA 02747-2300, Phone: 508/999-8219, FAX: 508/999-8901. The University of Massachusetts Dartmouth is an affirmative action and equal opportunity employer.

OREGON RESTORATIVE DENTISTRY

ENDOWED PROFESSORSHIP - full-time tenure-track position available July 1, 1994. Applications and nominations are invited for fully-funded named professorship. Candidates must have a dental degree and must have a record of significant accomplishment in restorative dentistry, including operative dentistry or fixed or removable prosthodontics, or in dental materials science. A current record of funded research and a strong commitment to continuing education are essential. This position will be filled at rank commensurate with successful candidates background and experience.

The successful candidate will be expected to teach in the undergraduate dental program and to conduct research. The privilege of an intramural faculty dental practice is available and encouraged. OHSU is an EEO employer. Applications will be accepted until the position is filled. Please send curriculum vitae and a letter indicating your interest to: Dr. George R. Riviere, Department of Pediatric Dentistry, Oregon Health Sciences University, School of Dentistry, 611 S.W. Campus Drive, Portland, OR 97201-3097.

OREGON - FIXED PROSTHODONTICS

CHAIR - full-time tenure or tenure track position available July 1, 1994. A dental degree, some administrative experience, and strong clinical background are essential. Evidence of current funded research is preferred. The department is responsible for undergraduate dental instruction, research and participation in continuing education. Intramural practice is available and encouraged. Position will be filled at rank commensurate with background and experience. OHSU is an EEO employer. Applications will be accepted until the position is filled. Send resume to: Dr. George R. Riviere, Department of Pediatric Dentistry, Oregon Health Sciences University, School of Dentistry, 611 S.W. Campus Drive, Portland, OR. 97201-3097

OREGON - REMOVABLE PROSTHODONTICS

Full-time tenure or tenure track position available July 1, 1994. A dental degree and strong clinical background are essential. Evidence of current funded research is preferred. The department is responsible for undergraduate dental instruction, research, and participation in continuing education. Intramural practice is available and encouraged. Position will be filled at rank commensurate with background and experience. OHSU is an EEO employer. Applications will be accepted until the position is filled. Send resume to: Dr. George R. Riviere, Department of Pediatric Dentistry, Oregon Health Sciences University, School of Dentistry, 611 S.W. Campus Drive, Portland, Oregon 97201-3097.

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Consider a career with a leading health care company that supports world-class research and product development. We have openings for medical writers in our Medical Bone & Mineral Research group. These positions in our prescription drug business will be located in Cincinnati, Ohio, our worldwide headquarters.

ASSOCIATE SCIENTISTS/SCIENTISTS

Professionals selected for these positions will be responsible for working with multidisciplinary research and medical teams to prepare U.S. and international regulatory documents (e.g., INDs, NDAs, clinical reports, clinical investigators manuals, integrated safety and efficacy summaries) and manuscripts for publication by external investigators.

Requirements include a BS or graduate degree in a related scientific discipline; strong written/verbal scientific communication skills; a demonstrable proficiency in writing and editorial skills; a minimum of 2 years' previous experience in preparing NDA documents; and a knowledge of regulatory requirements and statistical procedures. Candidates without a scientific degree but with extensive training in scientific or medical writing and editing will also be considered.

Procter & Gamble is a world leader in the research, development, manufacture, and marketing of a wide variety of consumer products. Annual sales exceed \$30 billion, and our annual R&D investment is more than \$1 billion. P&G is the leading OTC product marketing company in the U.S. and has a growing prescription drug business.

By 1995, we will begin occupying our new \$282 million Health Care Research Center located north of Cincinnati. Through a major commitment to building our strong health care business, our R&D organizations have established aggressive drug development programs that will provide excellent opportunities for personal and professional growth. P&G offers a competitive salary and benefits package, placing us among the top 5% of U.S. firms.

For confidential consideration, please send a letter of introduction, resume, and list of publications to:

Ph.D. degree applicants: BS or MS degree applicants:

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Cincinnati, OH 45239-8707	Cincinnati, OH 45224-1792

No agency referrals, please.

An Equal Opportunity Employer



**SAINT FRANCIS COLLEGE
ASSISTANCE PROFESSOR OF BIOLOGY
(MICROBIOLOGY/BOTANIST)**

Saint Francis College seeks candidates for an assistant professor, tenure-track appointment in the biology department for the 1994-1995 academic year. Responsibilities include teaching clinical microbiology, general microbiology, and botany. In addition, the applicant should have an interest in teaching biochemistry, immunology and 100-level biology courses offered as part of the college's core curriculum. Ability and interest to develop and supervise undergraduate research is expected.

Saint Francis College, founded in 1847, is a private, liberal arts institution, Catholic in character and tradition and sponsored by the Franciscan Friars. The College's beautiful 600-acre campus is located about sixty-five miles east of Pittsburgh in the Allegheny Mountains of central Pennsylvania and provides an excellent learning environment for over 2000 undergraduate and graduate students.

Ph.D. required; demonstrated commitment to teaching excellence; willingness to participate in department and college governance; scholarship and service involvement will be expected.

A letter of application, c.v., and name/address/phone number of three references to:

Biology Department Search Committee
c/o Director of Personnel Services
Saint Francis College
Loretto, PA 15940

Screening begins February 1, 1994. EOE/AA. Minorities and women are especially encouraged to apply.

Principal Scientists

IOLAB Corporation, a Johnson & Johnson Company and leader in ophthalmic research and development, is currently expanding its operations in the area of ocular pharmacology. We are seeking superior candidates for the position of Ocular Pharmacologist to work in our Pharmacology/Toxicology facility, located in Southern California.

Under the supervision of the Director of Pharmacology/Toxicology, you will be responsible for research activities in the Glaucoma Ocular Pharmacology Program. This will include the development of model systems and assays to test anti-glaucoma compounds.

This position requires a Ph.D. in Pharmacology, Immunology or related field, with a minimum of 3 years pharmacology experience in industry. Ocular pharmacology experience is preferred, but cardio-vascular, central nervous system, or immunopharmacology is acceptable. Candidates must possess strong written and verbal presentation skills for internal and external dissemination of scientific data.

We are an equal opportunity employer and take pride in our commitment to diversity in staffing. We encourage women, minorities, veterans and disabled individuals to apply. For consideration, submit your resume to: **Human Resources, IOLAB Corporation, 500 Iolab Drive, Claremont, CA 91711.**



**Universität Potsdam
Deutsches Institut für Ernährungsforschung
Potsdam-Rehbrücke (DIfE)**

The "Deutsches Institut für Ernährungsforschung Potsdam-Rehbrücke" - a foundation funded by the State Brandenburg and the Federal Government (Blaue Liste) - will appoint a

professor (C3)

together with the Universität Potsdam for the following research area:

Gastrointestinal Microbiology

Applicants should have knowledge in the areas of taxonomy and physiology of microorganisms and be able to develop a strong research program dealing with the problem of colonisation of the gastrointestinal tract with microorganisms including molecular methods. The Institute has long-standing experience with gnotobiology.

The professor will be delegated from the University to the DIfE in order to lead a research group at the DIfE. There will be a teaching obligation (2 hours/week) at the University. The University and the DIfE will jointly organize the curriculum of "Human Nutrition".

The University and the DIfE aim to raise the percentage of female scientists and encourage applications of women researchers, handicapped scientists will be taken into consideration by preference in case of comparable qualification.

Researchers holding the "Habilitation" degree or similar qualification are requested to submit two sets of curriculum vitae and list of publications within 8 weeks after the appearance of this advertisement to:

**Gründungsrektor der Universität Potsdam
Am Neuen Palais 10, D-14469 Potsdam, Germany**

Chair Biology

Georgia Southern University invites applications for the position of Chair in the Department of Biology. This 12-month, tenure-track position at the rank of Associate or Full Professor starts July 1, 1994.

We seek a dynamic individual with the following qualifications:

- proven administrative ability
- demonstrated leadership and organizational skills
- effective interpersonal skills
- strong teaching credentials
- Ph.D. or Sc.D. at the time of application with proven record of research

The Biology Department is a rapidly growing department with a strong commitment to teaching and research excellence. There are currently 22 faculty, including a Callaway Chair of Research, 30 M.S. degree students, and 650 undergraduate majors. The GSU Botanical Garden, the Institution of Arthropodology and Parasitology, the Smithsonian Institution's National Tick Collection, and the GSU Herbarium are located on campus and are affiliated with the department.

Georgia Southern University, a unit of the University System of Georgia, is located in Statesboro, a community of approximately 30,000 residents. The 601-acre campus lies 200 miles southeast of Atlanta and 50 miles northwest of historic Savannah within easy driving distance of beaches, islands, and resorts of Georgia and South Carolina. The enrollment of over 14,000 reflects a 115% enrollment growth since 1984, resulting in the addition of over 200 faculty positions. The university offers 25 undergraduate degrees in 75 major fields of study, 13 master's degrees in 49 fields, the Education Specialist degree, and the Ed. D. in Educational Administration. Georgia Southern offers selected graduate programs in Savannah in affiliation with Armstrong State and Savannah State Colleges.

Send a letter of application addressing job description, a curriculum vitae, and three letters of reference to Dr. B. W. Ponder, Chair Biology Search Committee, Landrum Box 8142, Georgia Southern University, Statesboro, GA, 30460-8142. FAX (912-681-5346). To ensure consideration for the position all materials must be postmarked by Dec. 20, 1993. The names of applicants and nominees, *curricula vitae*, and other general non-evaluative information are subject to public inspection under the Georgia Open Records Act. Georgia Southern is an Equal Opportunity/Affirmative Action Institution. Persons who need accommodations in the application process under the American with Disabilities Act should notify the search chair. SEARCH # 27372.

Cardiovascular Disease

COR Therapeutics, Inc. is a publicly-held biopharmaceutical company located in the San Francisco Bay Area. We specialize in the discovery and development of novel therapeutics for the treatment of various aspects of cardiovascular disease. COR is actively recruiting two highly qualified Scientific Directors with proven track records to join our multidisciplinary research teams.

Director Cardiovascular Pharmacology

This position will have the opportunity to direct an established research facility which interacts extensively with ongoing research programs. The Director will be responsible for determining the *in vivo* pharmacology and therapeutic potential of new agents designed for the treatment of thrombosis, restenosis and cardiovascular-associated inflammation.

The successful candidate will have 7-10 years of experience in the development and characterization of cardiovascular models, preferably within a pharmaceutical or biotechnology company, and a Ph.D., M.D. or D.V.M with training in Pharmacology, Physiology or related field. Candidates should have a proven track record in the pharmacological evaluation of therapeutics in a cardiovascular disease area as demonstrated through publications and/or product development. Candidates should also have outstanding interpersonal skills and the ability to lead an interdisciplinary research team. (Job Code R14-93-S)

COR COR THERAPEUTICS, INC.

Director Natural Products Chemistry

This position will have the opportunity to establish and direct a new Natural Products Chemistry facility at COR. The Director will interact extensively with ongoing research programs and will be responsible for purification and structural determination of novel compounds. The Natural Products Chemistry facility will also provide structural analytical determinations for Medicinal Chemistry.

The successful candidate will have a Ph.D. in Chemistry or related field with 7-10 years of experience in a pharmaceutical or biotechnology company focused on the isolation, characterization and evaluation of compounds from a variety of naturally occurring sources. Candidates should have a proven track record in the discovery and characterization of naturally occurring compounds. (Job Code R13-93-S)

COR Therapeutics, Inc. offers competitive salaries, benefits and attractive equity positions to its employees combined with the challenge and opportunity to make significant research contributions. To apply, please send curriculum vitae to: COR Therapeutics, Inc., Human Resources, 256 East Grand Avenue, South San Francisco, CA 94080. Please reference Job Code in correspondence. COR is an Equal Opportunity Employer.

NATIONAL RESEARCH COUNCIL Postdoctoral & Senior Research Associateship Awards

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Applications accepted on a continuous basis throughout the year. Those postmarked by January 15 will be reviewed in February; by April 15, in June; and by August 15, in October.

For application materials and information on participating laboratories contact:
Associateship Programs TJ 2094/S4



NATIONAL RESEARCH COUNCIL
2101 Constitution Avenue, NW
Washington, DC 20418
FAX: (202) 334-2759

CORNELL UNIVERSITY LABORATORY OF ORNITHOLOGY ENDOWED DIRECTORSHIP

The Cornell Laboratory of Ornithology is accepting applications and nominations for the Louis Agassiz Furbes Directorship. The Director guides and supervises all Lab operations and academic programs, acts as chief spokesperson of the Lab, serves as the liaison with Cornell and assists with all aspects of fundraising, including work with individuals, government agencies and foundations for the annual fund, specific research projects and capital contributions. The Director is accountable both to the Lab's Administrative Board and to Cornell and works closely with the Lab's Executive Director, supervising a staff of 58 and helping to guide the Lab's Departments: the Library of Natural Sounds, Bioacoustics Research, Bird Population Studies, Development, and Education and Information Services into the 21st century. We are seeking a senior-level person with significant research, administrative, and fund-raising experience in ornithology, conservation or a related field. The position will be open in June 1995 or sooner; review of applications will begin 15 November 1993 and is targeted for conclusion by 15 February 1994. To apply: send CV, a letter describing your qualifications and the names and telephone numbers of three references to: EDWIN H. MORGENS, Chairman, Administrative Board, Cornell Lab of Ornithology, 159 Sapsucker Woods Road, Ithaca, NY 14850-19999

ASSISTANT PROFESSOR HUMAN MICROSCOPIC ANATOMY

Applications are being accepted for a tenure-track faculty position as a Human Microscopic Anatomist in the Department of Anatomy, Northeastern Ohio Universities College of Medicine (NEOUCOM). Proposed starting date for the position is July 1, 1994.

A successful candidate is expected to have a proven record of research and publications with a demonstrated ability or a potential to attract extramural funding. Preference will be given to candidates who use modern cell biology techniques to address problems in the area of skeletal muscle, cardiac muscle, or nerve muscle interaction. Teaching responsibilities involve participation in a 14-week Microscopic Anatomy course for medical students. Candidates also have the opportunity to develop a graduate course that relates to their specialty. Salary, start-up funds, and facilities for research are competitive.

NEOUCOM, in consortium with Kent State University, The University of Akron, Youngstown State University, and eight teaching hospitals offer a combined BS/MD degree. Basic medical science faculty participate in graduate programs leading to Ph.D.'s in the areas of neuroscience, cell biology, physiology, pharmacology and biological anthropology through the School of Biomedical Sciences at Kent State University. The Department of Anatomy currently has seven full-time faculty and is expanding.

Applicants are requested to forward their curriculum vitae, a statement of research interests, and the names of at least three references by January 1, 1994 to Dr. Jon Walro, Ph.D., Chairman, Human Microscopic Anatomy Search Committee, Department of Anatomy, Northeastern Ohio Universities College of Medicine, P.O. Box 95, Rootstown, Ohio 44272-0095. The college is an equal opportunity affirmative action employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF KINESIOLOGY—PHYSICAL THERAPY (tenure-track). Duties include independent research and teaching in area of expertise. Doctorate and eligibility for Wisconsin physical therapy licensure required. Letter of application, curriculum vitae, copies of 3 published articles, names and addresses of 3 references to: **Dr. Barbara J. Morgan, University of Wisconsin, 1087 MSC, 1300 University Avenue, Madison, WI 53706** by December 15, 1993. Information about confidentiality of applicant names available on request. *Applications encouraged from women, minorities, persons with disabilities.*

PROFESSOR AND CHAIR

**Department of Microbiology and Immunology
University of North Texas Health Science Center at Fort Worth**

The Department of Microbiology and Immunology of the University of North Texas Health Science Center at Fort Worth invites applications and nominations for a chairperson. Candidates must have a Ph.D., M.D., D.O. or equivalent degree and an active research program with an outstanding record of research achievement in the areas of microbiology, immunology or virology. The Chairperson will be responsible for providing academic and administrative leadership to promote the research and teaching excellence of a vital young faculty.

The UNT Health Science Center is a state-supported medical facility housed in new, well-equipped facilities. The Health Science Center includes the Texas College of Osteopathic Medicine and the Graduate School of Biomedical Sciences (M.S. and Ph.D. programs). Send curriculum vitae, statement of teaching and administrative experience, a summary of research interests and goals, a list of grant funding and three letters of recommendation by December 31, 1993, to: **Dr. Paul F. Cook, Search Committee Chairman, Department of Microbiology and Immunology, University of North Texas Health Science Center at Fort Worth, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699.**

UNT Health Science Center is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—BIOPSYCHOLOGY. University of Delaware, Psychology Department invites applications for a tenure-track position. Applicants must have a Ph.D. degree and at least two years of postdoctoral experience. The successful candidate will teach undergraduate and graduate courses, supervise students, develop a productive research program and compete for extramural funds. Research areas of interest include, but are not limited to, developmental biopsychology, neuropharmacology, computational and cognitive neuroscience. Send curriculum vitae, letter of research plans, relevant reprints and at least three letters of recommendation by February 15, 1994, to: **David Northmore, Biopsychology Search Committee, Department of Psychology, University of Delaware, Newark, DE 19716-2577.** *The University of Delaware is an Equal Opportunity Employer that encourages applications from minority group members and women.*

The Department of Biological Sciences at the University of Cincinnati has an immediate opening for a tenure-track position at the rank of **ASSISTANT PROFESSOR.** The responsibilities include teaching and supervising the introductory biology laboratory course for majors and participation in lectures in the course shared with other faculty. The development and conduct of teaching effectiveness workshops, including innovative ideas for the use of instructional media, would be expected. Active involvement in additional scholarly activities, including pursuit of extramural funding for these activities, will be expected as well. Applicants must have a Ph.D. or equivalent. Experience in the development and implementation of introductory laboratory courses is desirable. Applicants should submit current curriculum vitae with any other supporting documentation, a one-page statement of teaching philosophy and goals and arrange to have three letters of recommendation sent to:

**Dr. G. D. Winget, Chair
Introductory Biology Search Committee
Department of Biological Sciences
University of Cincinnati
Cincinnati, OH 45221-0006**

Evaluation of candidates will begin January 15, 1994, and continue until the position is filled.

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

POSITIONS OPEN

POSITION IN ANIMAL PARASITOLOGY MICHIGAN STATE UNIVERSITY

The College of Veterinary Medicine at Michigan State University seeks to fill a tenure-track faculty position at the level of **ASSISTANT PROFESSOR** in the area of animal parasitology. This appointment will be in the Department of Large Animal Clinical Sciences, with joint appointments in the Department of Microbiology and the Animal Health Diagnostic Laboratory. Responsibilities include teaching duties within the veterinary curriculum, development of an externally funded research program, and supervisory and consultative diagnostic services. A D.V.M. or Ph.D. is required. Both degrees, or two or more years of postdoctoral experience, are desirable. A review of applications will begin November 15, 1993. To apply, submit curriculum vitae and an outline of plans for future research; also arrange for at least three letters of reference to be sent to:

**Chairperson, Parasitology Search Committee
Large Animal Clinical Sciences
D202 Veterinary Medical Center
Michigan State University
East Lansing, MI 48824-1314**

ANIMAL PHYSIOLOGY DEPARTMENT OF BIOLOGY UNIVERSITY OF UTAH

We seek applications for two faculty positions at the **ASSISTANT or ASSOCIATE PROFESSOR** level in animal physiology. Preference will be given to individuals whose research involves modern approaches to systems-level phenomena in vertebrate animals and the study of physiological mechanisms within a comparative, evolutionary framework. Outstanding applicants who utilize invertebrate systems will also be considered. We seek candidates with strong commitments to both teaching and research. Successful candidates will be expected to contribute to undergraduate courses in human and comparative vertebrate physiology and to develop advanced offerings in their own areas of specialty. Interested persons should submit curriculum vitae, statement of research interests, copies of relevant publications, and three letters of recommendation to: **ANIMAL PHYSIOLOGY SEARCH COMMITTEE, Department of Biology 201 South Biology, University of Utah, Salt Lake City, UT 84112.** Review of applications will begin December 1, 1993, and will continue until these appointments are made.

The University is an Affirmative Action/Equal Opportunity Employer. It encourages applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

NEUROPSYCHOLOGIST Cornell University Medical College

The Department of Psychiatry of Cornell University Medical College in New York City and White Plains, New York, invites applications for a faculty position at the **ASSOCIATE PROFESSOR** level or above. The Medical College is seeking an outstanding neuropsychologist with a strong research record in brain/behavior research. A working knowledge of functional brain imaging and quantitative EEG procedures is desirable. The applicant should be a creative researcher who can collaborate with other faculty members in the investigation of brain functioning in affective disorders, including elderly depressed, and other psychiatric disorders. Send curriculum vitae to: **Director of Psychology, The New York Hospital—Cornell Medical Center, Payne Whitney Clinic, 525 East 68th Street, New York, NY 10021.** *Equal Opportunity Employer/Affirmative Action Employer, M/F/D/V.*

ASSISTANT/ASSOCIATE PROFESSOR. The Division of Circulation Technology in the School of Allied Medical Professions at the Ohio State University is seeking qualified applicants for a tenure-track appointment in the field of cardiopulmonary physiology. Candidates should have a Ph.D. and a minimum of three years of postdoctoral research experience. The successful candidate is expected to participate in the teaching program and develop his/her own externally funded research program. Deadline for applications will be 15 December 1993. Send curriculum vitae and names of three references with a statement of research interests and plans to: **Dr. Richard Tallman, Chair Search Committee, Division of Circulation Technology, 1583 Perry Street, Columbus, OH 43210-1234.** *OSU is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR Biological Chemistry/Molecular Biology

The Department of Biological Chemistry, College of Medicine, University of California, Irvine, invites applications for a tenure-track appointment at the assistant professor level. Individuals with research experience and interests in the areas of molecular genetics, macromolecular processing and its control, structural biology and developmental processes are particularly encouraged to apply. Faculty members are expected to develop strong, independent research programs and to participate in the teaching of medical students and graduate students in a campus-wide joint graduate program in molecular biology, genetics and biochemistry.

Applicants should send curriculum vitae, a description of proposed research program and the names of four references to: **Search Committee Chair, Department of Biological Chemistry, College of Medicine, University of California, Irvine, CA 92717-1700.**

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

ASSISTANT OR ASSOCIATE PROFESSORIAL-LEVEL FACULTY APPOINTMENTS AVAILABLE IN ANATOMY, BIOCHEMISTRY AND MICROBIOLOGY.

Primary responsibilities: maximum of 25% time teaching one of the above disciplines to medical students, minimum of 75% of time for research. Academic rank and salary commensurate with training, teaching and research experience. **Please specify your departmental preference in your reply.** Send curriculum vitae and publications list, detailing teaching and research experience and interests, grant support and names of 3 references to: **Dr. Arnold L. Nagler, Associate Dean, PCME, New York College of Osteopathic Medicine, Old Westbury, NY 11568.** *Affirmative Action/Equal Opportunity Employer, M/F.*

THURBER MEMORIAL CHAIR IN APICULTURE

A twelve-month, tenure-track position; rank is open. **Research (60%):** position will be responsible for developing management tools for honey bee colonies and apiaries to increase their productive and economic well-being; responsible for research on the effects of predators, parasites, diseases, and other disruptive factors on the colony. **Extension (40%):** position will be responsible for extending information about honey bees from the program and from other programs to the clientele, work closely with Washington State Beekeepers Association, the beekeepers of Washington state and the Extension field faculty to develop an Extension program that fits the practical needs of the beekeepers of Washington. **Requires Ph.D. relevant specialty.**

Details can be obtained from: **Garrell E. Long, Chair—Department of Entomology, Washington State University, Pullman, WA 99164-6382, or Telephone: (509) 335-5505.** Screening of applications is expected to begin 1 January 1994 and continue until the position is filled. The goal is to fill the position 1 April 1994.

Affirmative Action/Equal Employment Opportunity/ADA.

ENVIRONMENTAL TOXICOLOGY FACULTY POSITION DUKE UNIVERSITY

The School of the Environment seeks applicants for a tenure-track or tenured faculty position in environmental toxicology. Preference will be given to applicants at the junior level, but applications from outstanding individuals with established research programs are also encouraged. The successful applicant is expected to develop a nationally recognized, externally funded research program, and to teach and advise graduate-level research and professional students. Training and/or experience in the application of molecular biological techniques to the effects of contaminants in aquatic, marine or terrestrial ecosystems are especially desirable. Applicants should send curriculum vitae, statement of research and teaching interests, and three letters of reference. All materials and requests for information should be directed to: **Dr. Richard T. DiGiulio, Chair, Environmental Toxicology Search Committee, School of the Environment, Duke University, Durham, NC 27708-0328.** Applications will be accepted through December 1, 1993, or until a suitable candidate is identified. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

COMPUTATIONAL SCIENTIST

High-Performance Computing in Environmental Technologies

The Center for Computational Sciences (CCS) at the Oak Ridge National Laboratory (ORNL), a recognized leader in multidisciplinary research and development, is seeking a Computational Scientist for the development and implementation of computational methods on massively parallel computer architectures to help solve environmental problems of critical importance to industry. The position is part of a multidisciplinary team of national laboratory and university collaborators working on the "Grand Challenges" related to environmental areas such as groundwater remediation and global change.

The successful applicant will be able to work with scientists, programmers, and vendors to create effective implementations of existing codes on state-of-the-art parallel supercomputers employing new

hardware and software. Where existing codes are inadequate, the researcher will be encouraged to develop innovative algorithms and software tools to simulate environmental systems. The CCS currently houses a Kendall Square Research computer and two Intel Paragons.

The position requires a PhD (or MS and equivalent combination of education and experience) in a quantitative science (computer science, math, engineering, physics, hydrology, or geochemistry). Application programming experience on massively parallel processors and FORTRAN programming proficiency are required. Familiarity with C and UNIX or OSF/1 based computers is desired, along with experience in development and use of visualization software and spatial analysis. Demonstrated interpersonal skills, oral and written communication

skills and strong personal motivation are essential.

ORNL is a multi-purpose research facility managed by Martin Marietta Energy Systems for the US Department of Energy. ORNL offers a competitive compensation and benefits package, including relocation. For immediate consideration, send your resume to: **J.K. Johnson, Oak Ridge National Laboratory, Dept. SCI, P.O. Box 2008, Oak Ridge, TN 37831-6216.**

ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.



Yale University School of Medicine



CHAIR, DEPARTMENT OF EPIDEMIOLOGY AND PUBLIC HEALTH ASSOCIATE DEAN FOR PUBLIC HEALTH

The Yale University School of Medicine seeks candidates for chair of its Department of Epidemiology and Public Health and Associate Dean for Public Health. A fully accredited school of public health, the department enrolls approximately 60-70 MPH and 15-20 Dr.Ph. and Ph.D. degree candidates annually and has 46 full time faculty in seven divisions: biostatistics, chronic disease epidemiology; environmental health sciences; health policy, resources and administration; infectious disease epidemiology; microbiology and international health. An integral part of Yale University, the department has established interdisciplinary programs with the schools of medicine, nursing, forestry and organization and management. Candidates should possess an M.D., Ph.D., or Dr.Ph. degree, demonstrable leadership abilities and a substantial record of scholarly achievement. Deadline for applications is December 15, 1993. Nominations and applications including curriculum vitae and names and addresses of three references should be sent to:

Gerard N. Burrow, M.D., Dean
Yale University School of Medicine
P.O. Box 208055
New Haven, CT 06520-8055

Yale University School of Medicine is an equal opportunity/affirmative action employer.



RPI, a leader in the development of ribozyme-based pharmaceutical and agricultural products, has established a multidisciplinary team of creative scientists in a new facility in Boulder, CO. We are seeking qualified applicants to join our efforts to deliver functional ribozymes by gene therapy. Our proprietary technology provides the exciting opportunity to explore how to deliver and maintain appropriate expression levels of small, structurally defined and catalytically active RNA molecules. Three positions are available immediately.

Senior Scientist with 4+ years postdoctoral experience relating to DNA delivery in mammalian systems. Expertise in viral vectors and/or control of RNA expression and stability is preferred. A successful candidate will have demonstrated management experience of laboratory teams.

Ph.D. Scientists with 2+ years postdoctoral experience relating to DNA delivery in mammalian systems. Expertise in viral vectors and/or control of RNA expression and stability is preferred.

B.Sc./M.Sc. Scientists with experience in recombinant DNA techniques, quantitation of RNA expression levels, DNA sequencing, and DNA transfection of mammalian cells.

We offer a competitive salary and benefits package, including a stock option plan. For consideration, please send a *Curriculum Vitae* and the names of three references to:

Dr. Joseph Marr, Vice-President, Research and Development, Ribozyme Pharmaceuticals, Inc., 2950 Wilderness Place, Boulder, CO 80301, FAX (303)449-6995. We are an Equal Opportunity Employer.

POSITIONS OPEN

DIRECTOR, PROTEIN NMR DATABASE—UNIVERSITY OF WISCONSIN—MADISON. Academic Staff Position, non-tenure, for lead position in BioMagResBank project. **Requirements:** Ph.D. degree, experience in theoretical, experimental, and computational aspects of protein NMR, working knowledge of NMR software packages and computer languages, proven research experience in the analysis of protein NMR data. We seek a team leader with interpersonal skills, flexibility, and growth potential to pursue the funding, development, and distribution of the database. Salary: \$45,000 to \$55,000 per year. Send curriculum vitae, statement of research interests, and the names and addresses of three references, by November 30, 1993, to: **NMR Database Search, c/o Joann Trodahl, Biochemistry Department, 420 Henry Mall, Madison, WI 53706.** *The University of Wisconsin is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity.*

CHAIRPERSON AND PROFESSOR. The East Carolina University School of Medicine invites nominations and applications for the position of Professor and Chairperson of the Department of Physiology. The candidate should possess a distinguished record in teaching and research in physiology or related discipline, proven skills in leadership, and experience in administration. Applicants should have an M.D. or Ph.D. degree. Salary and benefits are nationally competitive. Interested parties should submit curriculum vitae and three references to: **Alvin Volkman, M.D., D.Phil., Chairman, Physiology Search Committee, Brody 2W-33, East Carolina University School of Medicine, Greenville, NC 27858-4354.** Closing date: January 31, 1994. *East Carolina University School of Medicine is an Equal Opportunity/Affirmative Action Employer. Federal law requires proper documentation of identity and employability prior to final consideration for this position.*

CHAIR

Department of Biological Sciences
University of Maryland Baltimore County

The Department of Biological Sciences is seeking a distinguished scientist with a vigorous research program to serve as Professor and Chair. The Department, committed to excellence in research and in graduate and undergraduate education, includes 22 faculty members, 56 doctoral students, 28 Master's students, and approximately 400 undergraduate majors. The Ph.D. degree is offered in Molecular and Cellular Biology, Biological Sciences, and Environmental Sciences, and an M.S. degree is offered in Applied Molecular Biology. Research is well funded and covers the range of modern biology from cellular and molecular biology to organismic biology and environmental sciences. Please send curriculum vitae and names and addresses of at least three references to: **Dr. S. Ostrand-Rosenberg, Chair Search Committee, Department of Biological Sciences, UMBC, Baltimore, MD 21228-5398.** *UMBC is an Equal Opportunity Employer.*

CARDIAC MOLECULAR BIOLOGY/BIOCHEMISTRY

RESEARCH FACULTY POSITION

Cardiac Surgery Research Laboratory
Department of Surgery
Duke University Medical Center

The Department of Surgery at Duke University Medical Center seeks well-qualified applicants with a background in cardiac molecular biology and biochemistry to direct a laboratory in the Division of Cardiac Surgery. Candidates should have completed 3 to 5 years of relevant postdoctoral experience and be prepared to conduct an independent program of molecular cardiac research. The position includes an academic appointment in the Department of Surgery and would involve opportunities to participate in teaching as well as opportunities to act as research adviser to medical students, graduate students, residents and postdoctoral fellows. Areas of interest include, but are not limited to, molecular pathways to myocyte differentiation and growth, cardiac receptor interactions, myosin regulation, study of cardiac ion channels, and myocardial gene transfer. Applicants should send curriculum vitae and statement of research interest, as well as the names of three references to: **Dr. David C. Sabiston, Jr., M.D., James B. Duke Professor and Chairman, Department of Surgery, Post Office Box 3704, Duke University Medical Center, Durham, NC 27710.**

POSITIONS OPEN

VALDOSTA STATE UNIVERSITY (VSU). Tenure-track, fiscal-year position as **DEPARTMENT HEAD.** Rank of Associate or Full Professor. Ph.D. in a biological science required. The Department of Biology includes 16 full-time faculty and has over 400 undergraduate majors. Starting date is July 1, 1994. Send letter of application, curriculum vitae, summary of research interests, and names, addresses, and telephone numbers of three references to: **Dean John Upchurch, School of Arts and Sciences, Valdosta State University, Valdosta, GA 31698.** Materials must be received by December 1, 1993. *VSU is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION

BIOCHEMISTRY/ CELLULAR & MOLECULAR BIOLOGY

The North Central College Biology and Chemistry Departments seek a broadly trained person to teach biochemistry, cellular/molecular biology, and introductory courses. Rank open. This tenure-track joint appointment starts September 1994. Ph.D. required. Applicants should have the potential for excellence in undergraduate teaching and research. For more detail, call **708-420-4002.** North Central College is a 132-year-old comprehensive liberal arts institution of 2500 students with a distinguished tradition in the sciences located 30 miles west of Chicago in the heart of Illinois' research and development corridor. The departments offer majors in biochemistry, biology, and chemistry.

Send letter of application, curriculum vitae, graduate and undergraduate transcripts, and have three letters of recommendation sent to: **Anne Redding, Secretary to the Biology/Chemistry Search, North Central College, P.O. Box 3063, Naperville, IL 60566-7063.** Review of applications begins January 3, 1994, and continues until the position is filled. *We particularly welcome applications from women and minorities. Equal Opportunity Employer.*

Yale University invites applications and nominations for three **SENIOR FACULTY APPOINTMENTS** in the departments of **Chemical, Electrical and Mechanical Engineering.** We seek distinguished scholars whose research activities complement existing ones, and are related but not restricted to the following areas: Combustion, Computer Engineering, Interfacial Phenomena, Mechanical Behavior of Materials/Solid Mechanics, Microelectronics/Photonics, Separation Processes and Molecular Thermodynamics.

Applications and nominations should be sent before January 15, 1994, to:

**Professor Gary L. Haller
Chair, Council of Engineering
P.O. Box 208267
Yale University
New Haven, CT 06520**

Yale University is an Affirmative Action and Equal Opportunity Employer, and particularly welcomes applications from women and minority candidates.

BIOLOGIST

INSTRUCTOR to begin August 1994. Responsibilities will include introductory biology lecture and labs, human anatomy/physiology and directing undergraduate research. Qualifications include a graduate degree, broad background in biology and interest in biology education. Submit application letter describing professional goals, résumé, complete transcripts and three letters of recommendation to: **Dr. Gerald Van Amburg, Department of Biology, Concordia College, Moorhead, MN 56562.** File review will begin November 30, 1993, and continue until the position is filled.

Concordia College is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS in breast cancer research are available to study regulation of the estrogen receptor. Projects include transcription, mRNA stability, translation, and protein-protein interactions. An additional position is available to characterize proteases isolated from breast cancer cell lines. Expertise in biochemistry and molecular biology preferred. Please send curriculum vitae and references to: **Dr. Mary Beth Martin or Dr. Robert Dickson, S-Level, Lombardi Cancer Research Center, Georgetown University, 3800 Reservoir Road, NW, Washington, DC 20007.**

POSITIONS OPEN

**RUSH—PRESBYTERIAN—ST. LUKE'S
MEDICAL CENTER/
RUSH MEDICAL COLLEGE**

POSTDOCTORAL RESEARCH FELLOWSHIP in the Departments of Pediatrics and Pharmacology. Ph.D. with background and interests in vascular biology to pursue research in endothelial mediators (endothelin and NO). Experience in cell and molecular biology essential. Individual will work in established vascular biology group. Competitive salary. Submit curriculum vitae with three references to: **A.B. Malik, Chairman, Department of Pharmacology, Rush Medical College, 1653 West Congress Parkway, Chicago, IL 60612.** *Rush Medical College is an Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH TRAINING FOR RESIDENTS IN MEDICINE

The Department of Medicine of Columbia University announces a basic research career-track program for residents in Internal Medicine. Residents will first be provided with superb clinical training. Then, at the end of the 2nd or 3rd year, the trainees will choose from among the excellent laboratories on the Columbia Health Sciences campus for their postdoctoral training. The program, which is intended for M.D.-Ph.D. graduates and others with a strong interest and background in basic research, is funded by a grant from the Lucille P. Markey Charitable Trust. Research opportunities for residents in other clinical departments at Columbia may also be available under this program. For inquiries and a brochure, please write to: **Dr. Ira Tabas, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032.** *Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR of Medicine or Molecular Medicine, tenure-track. Candidate should possess M.D., or Ph.D.; experience in molecular genetics and interest in vascular disease or atherosclerosis. Send résumé to: **Dr. Alan Tall, Division of Molecular Medicine, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

DEVELOPMENTAL BIOLOGY

The Department of Anatomy & Cell Biology at the University of Virginia plans to expand research in developmental biology with a tenure-track appointment at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. There is a special interest in scientists who are applying contemporary molecular approaches to the study of mechanisms of development, to complement existing programs in cellular, developmental, and reproductive biology. The department stresses research, and candidates are expected to maintain independent programs of investigation and to participate in graduate education. Teaching is in medical Gross Anatomy. Training in this teaching specialty will be provided if necessary. In addition to developmental biology, opportunities for productive collegial interactions include interdisciplinary programs in molecular biology, reproduction, neuroscience, cancer, diabetes, and vascular biology. Candidates should send curriculum vitae, a brief description of research, and names of three references to: **Dr. Charles J. Flickinger, Department of Anatomy & Cell Biology, Box 439, Health Sciences Center, University of Virginia, Charlottesville, VA 22908.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY

A postdoctoral position is immediately available to investigate the molecular biology of murine platelet storage pool diseases and murine hemolytic anemias. The focus will be on the role of defective or deficient cytoskeletal proteins in causing these mutations. I am seeking an enthusiastic individual who has experience in mouse genetics and in molecular biology techniques including polymerase chain reaction, Southern blot analysis, cDNA and genomic library construction, Northern blot analysis and sequencing. Applications including curriculum vitae, list of publications, summary of current research efforts and names and addresses of three references should be sent to: **Dr. Robert White, Children's Mercy Hospital Biomolecular Laboratories, 2801 Wyandotte Avenue, Kansas City, MO 64108.** For further information please contact Dr. White at 816-931-8686. *Equal Opportunity Employer/Affirmative Action Plan.*



**Team Leadership
Appointment
Cell Biology
Molecular
Sciences Group**



Continuing expansion has created an exciting opportunity for an experienced research scientist to lead a growing group of some 16 scientists and research assistants. You and your team will make a substantial contribution to our drug discovery programmes by providing comprehensive mammalian cell biology support. This will include both the analysis, genetic engineering and large scale production of mammalian cell lines. The successful applicant will have up-to-date knowledge and experience in these areas and be keen to exploit leading edge technologies. The position requires relevant post-doctoral experience in industry, and proven leadership ability. You will be part of the Molecular Sciences Group, a key component of our drug discovery team, working closely with pharmacologists and medicinal chemists. There are close contacts with colleagues in our comparable U.S. facility, affording opportunities to interchange ideas and experience.

Pfizer is a research-based global healthcare company, currently recognised to have one of the strongest new product pipelines in the industry. Naturally, we offer a highly competitive remuneration package, together with comprehensive relocation assistance where appropriate.

In the first instance, please send a CV, or telephone for further information, to our consultant Malcolm Campbell of Springman, Tipper, Campbell Partnership Ltd., of 54 Jermyn Street, London SW1Y 6LX, Tel; 071 499 9892. Fax 071 499 7546

Pfizer Central Research

**McGill University
DEPARTMENT OF BIOLOGY**

The Department of Biology at McGill University invites applications for tenure-track positions at the ASSISTANT PROFESSOR level in **MOLECULAR BIOLOGY**. The Department seeks candidates whose research addresses fundamental problems in cell, developmental or evolutionary biology using a genetically well-characterized fungal, plant or animal system.

The successful applicant will join a large (40 full-time faculty) and dynamic department with research strengths in cellular, molecular, and developmental biology, ecology, and neurobiology. The Department also has excellent technical facilities, including centres for photography, light and electron microscopy, biotechnology, field stations and the McGill Phytotron.

Applicants should hold the Ph.D. degree in biology or a related field, and demonstrate capacity for independent research. Duties will include carrying out research and participating in teaching of undergraduate- and/or graduate-level courses in cell and molecular biology. The position must be filled by September 1, 1994.

Please send CV, a statement of research interests, and representative reprints. Request three letters of reference. All materials should arrive by December 15, 1993. Send to:

Prof. Robert L. Carroll
Chair, Department of Biology
McGill University
1205 Avenue Docteur Penfield
Montreal, Quebec, Canada
H3A 1B1

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. McGill University is committed to equity in employment.

**Protein Computational
Simulation and Modeling**

a) To study structure-function-dynamic relations of proteins/enzymes in order to propose experimentally-testable modifications to alter and improve functionality. b) To develop improved simulation, data refinement, and folding methods. For example, see a) Prot. Sci. 2, 357 (1993); b) Prot. Eng. 6, 359 (1993); c) J. Comp. Chem. 14, 541 (1993); d) J. Biomolec. Struct. Dyn. 7, 1019 (1992); e) Prot. Eng. 5, 703 (1992); f) Proteins 12, 266 (1992); Proteins 13, 26 (1992).

1. Immediate Openings for Postdoctoral Fellows

Computational experience and knowledge of protein biophysical chemistry are preferred. Doctoral degree must have been awarded within last 3 years. Available immediately, but will wait for excellent candidates. Stipend begins at \$36K.

2. Permanent STAFF Opening

At least 3 to 4 successful years of postdoctoral experience, or equivalent, with strong publication record. Strong computational technical skills and extensive protein biophysical chemistry experience. Available in late winter or early spring of 93/94. Reference #: 941014CSP.

Interaction with experimental collaborators and publication productivity are essential. Send resume (+ email address), publication list and up to 3 significant reprints. Location: National Laboratory in Southcentral Washington State.

Contact: Dr. Rick L. Ornstein, Molecular Science Research Center, Battelle-Pacific Northwest Laboratory, Richland, WA 99352; INTERNET: RL.Ornstein@PNL.GOV.



...Putting Technology To Work

EOE/AA



UNIVERSITY OF MANCHESTER
**SCHOOL OF
BIOLOGICAL
SCIENCES**

ZENECA

The Zeneca Cell and Molecular Biology Laboratory Zeneca Senior Fellowships in Cell and Molecular Biology

Four fellowships are available to initiate the work of this new laboratory which aims to integrate programmes of cell and molecular biology in the School of Biological Sciences with anticancer drug discovery research at nearby Zeneca Pharmaceuticals.

For this exciting initiative, we are seeking exceptionally talented individuals with a proven record of excellence in research and a clear potential for further development. They must establish themselves as independent scientists, will be able to hold honorary faculty posts in the newly formed graduate school, and will be expected to build up a team of workers around themselves through grant applications to the research councils and charities. It is essential that they collaborate on aspects of their work with researchers at Zeneca (18 miles south of Manchester) and earmarked funds to support a postdoctoral fellow will be provided specifically for this. Generous funds will be available for research costs and capital equipment. The research environment of the School of Biological Sciences together with those of the nearby Paterson Institute for Cancer Research and UMIST provides ample scope for further local collaboration. The facilities of Zeneca's laboratories will also be available to support collaboration.

The areas of particular interest to both Zeneca and the research groups in the School of Biological Sciences are the cell and molecular biology of cell death (apoptosis) and cell adhesion, especially signals derived from adhesion molecules. In addition, there are major interests in the areas of DNA damage inducible responses, cell cycle checkpoint control, structural aspects of the cell nucleus, the control of gene expression in epithelial cells, and epithelial morphogenesis.

The posts will be funded for five years in the first instance. Two posts are available in January 1994 and two more in January 1995. Salaries will be in the range £19,642 - £25,107 p.a. Informal enquiries can be made to John Hickman at Manchester University (tel. (0)61 275 5448) or Paul Workman at Zeneca (tel. (0)625 51 3938). Further particulars and application forms (returnable by December 15th 1993) are available from the Registrar (Academic Staffing Office), the University, Manchester M13 9PL (tel. 061 275 2028). Quote ref. 314/93.

The University is committed to an Equal Opportunities Policy.

COGNITIVE NEUROSCIENCE

INDIVIDUAL GRANTS-IN-AID

The McDonnell-Pew Program in Cognitive Neuroscience is accepting proposals for individual grants-in-aid to support research and training in cognitive neuroscience. Applications are sought for projects of exceptional merit that are not currently fundable through other channels and from investigators who are not at institutions already funded by the program. Preference will be given to projects that are interdisciplinary in character involving two or more of the subfields of cognitive neuroscience drawing on developments in clinical and basic neuroscience, computer science, psychology, linguistics and philosophy.

Research support is limited to a maximum of \$30,000 per year for up to two years. Training support and postdoctoral stipends are limited to a maximum of \$30,000 per year for up to three years. Training grants to support Ph.D. thesis research of graduate students will not be funded. Submissions will be reviewed by an advisory board chaired by Professor George Miller of Princeton University.

**Applications must be postmarked
on or before February 1, 1994.**

For proposal guidelines, contact:
McDonnell-Pew Program in Cognitive Neuroscience,
Green Hall 1-N-6, Princeton University,
Princeton, NJ 08544-1010, (609) 258-5014, fax:
(609) 258-3031, email: cns@clarity.princeton.edu.

FACULTY POSITION IN BIOLOGICAL SCIENCES AT COLUMBIA UNIVERSITY

The Department of Biological Sciences at Columbia University invites applications from candidates with experience in cell or molecular biology for a tenure track position at the Assistant Professor level. Preference will be given to those with interests in developmental biology but serious consideration will be given to other candidates with experience congruent with our department's interests in gene regulation, cytoplasmic signalling, developmental biology, and neurobiology. Candidates should forward their curricula vitae, a summary of research interests, and arrange for letters from three references to be sent to:

**Professor Catherine Squires,
Chairperson
Junior Faculty Search Committee
Department of Biological Sciences
600 Fairchild
Columbia University
New York, NY 10027**

The deadline for application is December 31, 1993.

Columbia University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS at the WOODS HOLE OCEANOGRAPHIC INSTITUTION

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

Applications are invited from new or recent doctorates in the fields of biology, molecular biology, microbiology, chemistry, engineering, geology, geophysics, mathematics, meteorology and physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise. Fellowships are awarded for one year (extendable up to two years in special circumstances) with a stipend of \$35,000 plus group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interests independently or in association with resident staff. Completed applications must be received by January 15, 1994 for the 1994-95 awards. Awards will be announced in March. Write for application forms to: Dean of Graduate Studies, P.O. Box S, Woods Hole Oceanographic Institution, Woods Hole, MA 02543. Or call (508) 457-2000, ext. 2200 or Email bederemer@whoi.edu.



**WOODS HOLE
OCEANOGRAPHIC
INSTITUTION**

An equal opportunity/affirmative action employer

PHD AND POST DOCTORAL CHEMISTS

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

In January 1994 we will be visiting the USA to hold our annual preliminary interviews for vacancies at our Research headquarters in England.

If your PhD or Post Doctoral work is due to finish in 1994 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 facilities and final interview.

Applications, which are welcome from all nationalities should be made by fax or courier to arrive no later than Tuesday 14th December 1993 with
Claire Cutler, Senior Personnel Officer, Human Resources Department, Glaxo Group Research, Park Road, Ware, Herts SG12 0DP, England.
Fax (+44) 0920 469237.

Glaxo Group Research



Academic Clinical Pathologist Assistant Professor

The Department of Pathology of the VA Medical Center and The University of Tennessee Medical Group has a position available. The VAMC pathology laboratories have just been completely renovated and contain state of the art equipment including mass spectrometers, FACS, HPLC, chemistry analyzers, etc. The VAMC also has outstanding research facilities and the pathology staff at the VAMC hold appointments in the College of Medicine at the University of Tennessee and are expected to participate in resident, medical student and graduate student teaching. The successful candidate should have an MD, be board certified or eligible, and have demonstrated expertise in clinical pathology. The successful candidate must have a commitment to academic activities and have the potential to develop an extramurally funded, independent research program. Applicants should submit their C.V., names of three references and a letter of interest to: Antonio Martinez-Hernandez, MD, Chief of VAMC Pathology and Robert E. Scott, MD, Chairman of UTMG Pathology, Pathology Service, VAMC, 1030 Jefferson Avenue, Memphis, TN 38104

**The University of
Tennessee Medical Group**

"The University of Tennessee Medical Group is an equal employment opportunity/ Affirmative Action Employer"

SULTAN QABOOS UNIVERSITY-SULTANATE OF OMAN

College of Agriculture

Sultan Qaboos University, the National University of the Sultanate of Oman, is looking for qualified individuals to fill the following positions in the College of Agriculture:

Deputy Dean of Fisheries and Marine Sciences

Assistant Dean of Research

Assistant Dean of Extension

Head of Department of Plant Sciences

Head of Department of Agricultural Economics

Head of Department of Agricultural Mechanization

Head of Department of Soil and Water Sciences

Scope and Responsibility: The incumbent will provide leadership for the overall organization and administration of respective programme activities in the College. The successful candidate is expected to develop, improve, promote and stimulate quality and relevant programmes in the College; and to provide leadership and inspiration to the staff and students to pursue high standards of learning and scholarship. The incumbent is responsible for the selection, training assignment and evaluation of personnel, planning and budgeting for facilities and equipments; recommending the hiring, promotion, termination and discipline of staff, liaison with relevant departments in the University, governmental agencies and private sectors; exploiting extramural support and collaborative activity; and implementing projects and disseminating of research findings.

Qualification: Applicants should possess a Ph.D. degree in agricultural disciplines or related fields from a reputable university, with professional credentials of a high order, sufficient to meet the criteria for full professorship. Evidence of sensitivity to cultural diversity and fluent in both spoken and written English are necessary. Excellent organizational and communicative skills and a strong sense of commitment and enthusiasm for extension administration and programming are essential. Candidates with at least ten years of experience in a full-time appointment on the academic staff or a recognized and reputable academic institution, who have demonstrated the professional growth and potential for leadership are desirable.

Salary and benefits: Apart from a very attractive tax free salary, commensurate with qualification and the experience, Sultan Qaboos University provides furnished accommodation, free medical treatment in Government Hospitals, school fees for up to two children, first class return air tickets for self, spouse and up to three children annually, sixty days leave. Renewable contracts are offered every two years and end of contract gratuity is paid.

Interested candidates should provide complete resume, official transcripts and arrange three letters of reference, and quoting our Ref: ADV/Agri/04/93, to be sent to:

**The Director, Personnel Affairs
Sultan Qaboos University,
P.O. Box 50, Al-Khod - 123,
Sultanate of Oman**

POSITIONS OPEN

POSTDOCTORAL POSITION IN PROTEIN CRYSTALLOGRAPHY

Position available 1 June 1993 to determine three-dimensional structures of active serpins (these are 45 kD proteins which inhibit serine proteases; see Wei et al., *J. Mol. Biol.* 1992, 226, 273). This work is part of a multidisciplinary collaboration involving molecular biologists, enzymologists, and structural biologists. Candidates for this position should have a background in protein crystallography and some experience in protein purification. Applications, including curriculum vitae, list of publications, and names and addresses of three references should be sent to: Prof. David W. Christianson, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323.

POSTDOCTORAL POSITION. To study mechanisms of gene transfer and expression both in cultured cells and in animals, with potential application to gene therapy: (see *Science* 261:209-11, 1993; *JBC* 268:16087-90, 1993; *PNAS* 89:11277-81, 1992). Extensive experience in molecular biology required. Please send curriculum vitae and names of three references to: Dr. Robert Debs, CRI, Box 0128, University of California San Francisco, San Francisco, CA 94143-0128.

TWO POSTDOCTORAL POSITIONS, protein crystallographer and molecular biologist/protein chemist, are available to study the structure and function of the cyclophilin-calcein complex. Salary depends on qualifications and experience. Send curriculum vitae and three letters of references by January 1, 1994, to: Dr. Heng-ming Ke, Department of Biochemistry and Biophysics, The University of North Carolina, Chapel Hill, NC 27599-7260.

POSTDOCTORAL POSITION/The University of Chicago. Position available in molecular and cell biology laboratory to explore the dynamics of the mammalian cytoskeleton and its relation to human genetic disease, using embryonic stem cell and transgenic mouse technology (see *Cell* 64:365, 1991; *Cell* 66:1301, 1991; *Cell* 70:811, 1992 for related work from lab). Enthusiasm for the science, solid Ph.D. training and high scientific standards are the most important requirements. Send curriculum vitae, summary of research experience and names of three references to: Dr. Elaine Fuchs, Department of Molecular Genetics and Cell Biology and Howard Hughes Medical Institute, The University of Chicago, 5841 South Maryland Avenue, Room N314, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL—MOLECULAR VIROLOGY

Postdoctoral position available to work on the molecular virology of HSV-1 latency and pathogenesis. Experience in either molecular biology, molecular genetics, molecular/classical virology (especially herpes virology), or immunology (especially viral immunology) is highly desirable, but not essential. Funding for this position is guaranteed for at least 3 years at a highly competitive salary. Send curriculum vitae with names and telephone numbers of 3 references to: Dr. Steven L. Wessler, Director, Virology Research Laboratories, Harper Building-124, CEDARS-SINAI MEDICAL CENTER, Research Institute/UCLA School of Medicine, 8700 Beverly Boulevard, Los Angeles, CA 90048-1869. FAX: (310) 657-0190. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS: Applications are invited from individuals interested in the biochemistry of cell adhesion. Our lab consists of a multidisciplinary group examining structure-function relationships of the integrin protein family. Current projects include: metal ions in receptor function; 3-D structure of integrin ligands; engineering antibodies as integrin ligands; integrins in bone resorption and inflammation. Individuals with strong backgrounds in either molecular cloning and mutagenesis; crystallography; 2D-NMR; protein-protein interactions; protein engineering; molecular modeling; metallo-biochemistry; and/or cell-surface receptor trafficking are invited to apply. Individuals with strong publication records in any discipline will be considered. The work environment is intense and rewarding. Early risers will do well. Send curriculum vitae, relevant reprints and names of three individuals willing to serve as references to: Jeffrey W. Smith, Department of Vascular Biology (CVB-1), The Scripps Research Institute, 10666 North Torrey Pines Road, La Jolla, CA 92037.

POSITIONS OPEN

CANCER RESEARCH POSTDOCTORAL POSITION available immediately to study the recombination and repair of damaged chromosomes and the biology of telomeres in mammalian cells. A Ph.D. and experience in molecular biology are required. *Non-smoking workplace.* Send curriculum vitae and names of 3 references to: Dr. Brad Windle, Cancer Therapy & Research Center, 8122 Datapoint, Suite 600, San Antonio, TX 78229. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Pharmaceutical Discovery Corporation seeks two Ph.D.-level scientists (0 to 3 years) for oral drug delivery and CNS drug research.

Pharmacology: Receptor binding experience using isotopic and nonisotopic techniques for novel drug R & D. Will interact with medicinal chemistry group. Technical and product support experience desirable.

Pharmacokinetics: Experience in animal studies, *in vitro* metabolism, HPLC, GC, RIA, PCNONLIN, and data interpretation skills. Curriculum vitae and three references to: Human Resources—Research, Pharmaceutical Discovery Corporation, 7 Westchester Plaza, Elmsford, NY 10523.

POSTDOCTORAL POSITION available immediately to investigate the structure, function and biosynthesis of bacterial methylamine dehydrogenase, with a focus on its novel tryptophan tryptophylquinone redox cofactor (*Science* 252, 817-824; 1991). Studies involve using site-specifically mutated forms of the enzyme that are selected on the basis of the solved X-ray structure. Requires experience with protein chemistry and enzyme mechanistic studies. Curriculum vitae and letters of reference to: Dr. William S. McIntire, VA Medical Center (151-S), 4150 Clement Street, San Francisco, CA 94121.

POSTDOCTORAL POSITION IN MICROBIAL PHYSIOLOGY/ MICROBIAL ECOLOGY

Position available immediately to study effects of environmental parameters on microbial transformation of organic and inorganic contaminants. Assess impacts of redox chemistry, pre-exposure history, and metabolic variability on contaminant fate in batch cultures and packed column chemostats. Ph.D. in appropriate field and experience with microbial identification, gas chromatography, and radioisotope techniques essential. Send curriculum vitae, graduate transcripts, a brief statement of research experience and interests, and names, addresses and telephone numbers of three references by December 15, 1993 (or until position filled) to: Dr. Mary E. Watwood, Department of Biological Sciences, Campus Box 8007, Idaho State University, Pocatello, ID 83209; Telephone: 208-236-3090; FAX: 208-236-4570. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study oxidative damage to proteins. Qualified applicants should send curriculum vitae and names of three references to: Dr. Jack A. Hinson, University of Arkansas for Medical Sciences, Division of Toxicology, 4301 West Markham, Little Rock, AR 72205. Telephone: 501-686-5766. An Equal Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** are available for candidates with a Ph.D. degree in biochemistry/biophysics interested in structure/function studies on proteins involved in regulation of contraction in smooth muscle [caldesmon (Dr. P. Graceffa); MLCK/calmodulin (Dr. Z. Grabarek)]. Techniques include protein modification; site-directed mutagenesis; fluorescence, ESR, and CD spectroscopy; chemical and photo-crosslinking; etc. Please send curriculum vitae and names of three references to: Ms. Mary Caulfield, Boston Biomedical Research Institute, 20 Staniford Street, Boston, MA 02114. We are an Equal Opportunity Employer.

POSTDOCTORAL POSITION available for the study of amino acids in retinal neurotransmission using quantitative molecular probes and single cell imaging. Background in retinal biology, neuroscience or computer science/imaging preferred. Position available immediately. Salary competitive, with benefits. Send curriculum vitae and names/addresses of three references by January 7, 1994, to: Robert E. Marc, Ph.D., John Moran Eye Center, University of Utah Health Sciences Center, 50 North Medical Drive, Salt Lake City, UT 84132. The University of Utah is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL POSITION available January 1994 for recent graduate to research cardiac biochemical and molecular biological changes (calcium and ATP cycling) occurring in heart failure. Experience in enzymology and molecular biologic techniques required. Submit résumé, transcripts, and 3 letters of reference to: Peter James O'Brien, D.V.M., Ph.D., D.V.Sc., Department of Pathology, University of Guelph, Guelph, Ontario, N1G 2W1, Canada. Telephone: (519) 823-8800; FAX: 763-0212. University of Guelph is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study novel methods for the use of liposomes in the development of vaccines for the therapy of cancer. The salary is highly competitive. Prior research in liposome technology is not necessary. This position will be funded by Jenner Technologies and the work will be carried out at WRAIR. Please submit curriculum vitae to: Dr. Carl R. Alving, Department of Membrane Biochemistry, Walter Reed Army Institute of Research, Washington, DC 20307.

Vanderbilt University School of Medicine

Applications are invited for two **POSTDOCTORAL POSITIONS** to study the molecular biology and biochemistry of the mammalian fibrinolytic system. Fellows will join an expanding group in the Molecular and Cellular Cardiovascular Laboratories. Solid training in molecular biology and/or biochemistry is required. Please send curriculum vitae and the names and addresses of three references to: Douglas E. Vaughan, M.D., Director of Thrombosis Research, Cardiology Division, Vanderbilt University School of Medicine, CC-2218 MCN, Nashville, TN 37232-2170; FAX: 615-343-3460. Vanderbilt University is an Equal Opportunity Employer and encourages applications from underrepresented minorities.

MUHLENBERG COLLEGE

BIOLOGY: Tenure-eligible position specializing in general area of morphology. Ph.D. required. Teaching responsibilities will include courses in comparative anatomy, comparative embryology, and histology. The use of scanning and transmission electron microscopy in courses and an active research program are essential. Muhlenberg College is a church-related, selective, liberal arts college located one hour from Philadelphia. To apply, send description of teaching and research interests, curriculum vitae, and three letters of reference by December 4, 1993, to: Dr. Daniel Klem, Jr., Department of Biology, Muhlenberg College, 2400 Chew Street, Allentown, PA 18104-5586. An Equal Opportunity Employer, we encourage applications from women and minority candidates.

POSTDOCTORAL POSITION in visual neurophysiology on the analysis of structure-from-motion by primates. Studies combine psychophysics and single unit recording in visual association cortex of behaving monkeys. Also ongoing human psychophysical, and computational studies. Recent graduates changing fields from cellular or computational neuroscience are encouraged to apply. Computer expertise useful. NIH-level salary and supplement, 4 years of funding. Send curriculum vitae, letter of research interests, references to: Ralph Siegel, Ph.D., Center for Molecular and Behavioral Neuroscience, Rutgers University, 197 University Avenue, Newark, NJ 07102; axon@cortex.rutgers.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study blood cell development at the molecular and cellular level using tissue culture, transgenic mouse, and embryonic stem cell technology. The successful applicant will join a group consisting of four laboratories devoted to molecular cardiovascular research in newly renovated space at the University of Chicago (including Drs. Jeffrey Leiden, Michael Parmecsek, and Eliav Barr). Candidates should have molecular biology experience. Send curriculum vitae and names of three references to: M. Celeste Simon, Ph.D., Department of Medicine, Department of Molecular Genetics and Cell Biology, The University of Chicago, 5841 South Maryland Avenue, MC 5041, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

The National Competition for Student Inventions and Discoveries Is Under Way Now!

The National Invention Center and The BFGoodrich Company are seeking graduate and undergraduate students to compete in the 1994 BFGoodrich Collegiate Inventors Program.

Entry deadline is February 15, 1994.

Thousands of dollars in cash prizes are awarded to winning students and their advisors. The competition recognizes and rewards U.S. college and university students whose innovations and discoveries are deemed the year's most outstanding. Prizes range from \$500 to \$5000.

Call now for details and an application – Contact
Rose L. Heintz, National Invention Center, Akron, Ohio.

1-800-968-4332

TargeTech, Inc. (a wholly owned subsidiary of the Immune Response Corp. of Carlsbad, CA) is a research stage, biopharmaceutical company pursuing a novel technology of receptor-mediated delivery of genes and antisense.

Ph.D. Bio-Organic Chemist / Director Level

This is an exceptional opportunity for a highly motivated individual who desires to be an integral member of a multidisciplinary team in our entrepreneurial environment.

The individual will lead a team of chemists optimizing delivery systems that utilize proteins as carriers for DNA. The successful applicant will also participate with manufacturing personnel in preparing for a clinical trial in 1994 with an antisense product against hepatitis B. The scientist should possess formal training and experience in protein chemistry or nucleic acid chemistry. A working knowledge of synthetic organic chemistry would also be advantageous. Management experience is highly desirable.

TargeTech, Inc. is committed to providing a nurturing environment for creative, highly motivated scientists by offering competitive salaries, a comprehensive benefits package, and equity participation in the company. Submit resumes to: **TargeTech, Inc., Human Resources, 290 Pratt St., Meriden, CT 06450.** We are an equal opportunity employer.

TARGE TECH INC.

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

The General Secretariat of the King Faisal International Prize is pleased to invite universities, scientific societies and research centers throughout the world to nominate qualified candidates for the King Faisal International Prize for Science. The topic for 1415H (1995) is:

CHEMISTRY

Nomination should meet the following requirements:

1. Nominees must have accomplished outstanding academic work in the Prize topic, benefiting mankind and enriching human progress.
2. Submitted work must be original and published.
3. Nomination should include:
 - (a) Letter of nomination from a nominating body;
 - (b) typed current CV detailing the nominee's academic background and experience and listing all published works;
 - (c) seven copies of each nominated work;
 - (d) three recent colour photos;
 - (e) the nominee's office and home mailing addresses, including telephones, telex and fax.
4. Nomination will be evaluated by the Selection Committee.
5. More than one person may share the Prize.
6. The nomination will not be accepted if:
 - (a) it is by individuals or political parties;
 - (b) it does not meet all the prize conditions.
7. The Prize consists of:
 - (a) a certificate in the winner's name containing an abstract of the works that qualified him/her for the Prize;
 - (b) a gold medal;
 - (c) a sum of (SR350,000) three hundred and fifty thousand Saudi Riyals, (approximately US\$93,000).
8. The winner(s) name(s) will be announced in January 1995, and the Prize will be awarded in an official ceremony later in the year.
9. The latest date for receiving the complete nomination requirements will be September 1, 1994.
10. No nomination papers or works will be returned to the senders, whether or not the nominee is awarded the Prize.
11. Nomination should be sent by registered airmail to:

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

**Tel 4652255
Tlx 404667 PRIZE SJ
Fax 4658685
Cable JAEZAH**

POSITIONS OPEN

Industry-Funded **POSTDOCTORAL AND RESEARCH ASSISTANT PROFESSOR POSITIONS** are immediately available in the state-of-the-art AgBio-tech Center at Rutgers University to study the soil behavior of heavy metals and their effect on plants. Research background in soil chemistry is required as well as excellent communication skills. Minimum starting salaries are \$26,000 and \$35,000 plus health insurance. Send curriculum vitae and three references to: **Dr. Ilya Raskin, AgBiotech Center, Rutgers University, Cook College, P.O. Box 231, New Brunswick, NJ 08903-0231.** Rutgers is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS (2) in molecular ecology of defense using transgenic plants. One emphasizes DNA manipulation, other emphasizes field experiments. Opportunity to develop own project. Send curriculum vitae, research interests, and 3 recommendations by December 1, 1993, to: **Dr. Joy Bergelson, Biology Department, Box 1137, Washington University, St. Louis, MO 63130.** FAX: 314-935-4432.

The College of William and Mary, School of Marine Science/Virginia Institute of Marine Science invites applications for a **POSTDOCTORAL POSITION** in the laboratory of **Dr. S. L. Kaattari.** The successful candidate will be involved with a N.I.E.H.S.-funded study on the effects of aflatoxin and other carcinogens on immune system development in trout. The applicant must have a doctorate in microbiology, immunology or related discipline. Provide current curriculum vitae and letter from three references to: **Dr. Stephen Kaattari, School of Marine Science, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, VA 23062.** Review of applications will begin on **26 November 1993** and will continue until the position is filled.

The College of William and Mary is an Equal Opportunity/Affirmative Action Employer. Members of underrepresented groups (including women, people of color and persons with disabilities) are strongly encouraged to apply.

POSTDOCTORAL POSITION in biochemistry/molecular biology of marine fishes. Research focus is on adaptations of oxidative muscle tissues to cold body temperature in temperate and polar fishes, particularly upon intracellular movement of oxygen, regulatory ions and metabolites. Skill in biochemistry/molecular biology is essential; experience in marine biology/fish physiology is desirable. Send letter, curriculum vitae and names and addresses of 3 referees to: **Dr. Bruce D. Sidell, Department of Zoology, University of Maine, 5751 Murray Hall, Orono, ME 04469-5751.** Screening begins 15 November 1993. *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION Department of Bronchopulmonary Research Hoffmann-La Roche Inc.

Immediate opening for a postdoctoral research associate for 1 to 3 years, for research in the areas of (i) signal transduction mechanisms associated with the high affinity receptor for IgE/mast cells or basophils, (ii) molecular biology of phospholipases, including phospholipase D. Qualifications include a Ph.D. in biochemistry/immunology/cell biology with a molecular biology background. We offer a competitive salary and an additional subsidy for housing. Please send curriculum vitae and names of three references to: **Dr. J. Kochan, Department of Bronchopulmonary Research, Hoffmann-La Roche Inc., 340 Kingsland Street, Nutley, NJ 07110.**

POSTDOCTORAL POSITION available January 1, 1994, to study synthetic approaches to nitrogen-15 labeled nucleic acid fragments. Preference will be given to applicant with a recent Ph.D. in organic chemistry with experience in synthesis. Experience in nucleic acid chemistry desirable but not required. Send curriculum vitae, a brief statement of research interests, and names and telephone numbers of three references to: **Dr. Roger A. Jones, Department of Chemistry, Rutgers University, Piscataway, NJ 08855.**

POSTDOCTORAL FELLOW—position available immediately to study autoreactive human immunoglobulin gene expression in development and disease. Experience in molecular biology required. Send curriculum vitae to: **Dr. L. E. Silberstein, University of Pennsylvania School of Medicine, Founders Pavilion 6.079, 3400 Spruce Street, Philadelphia, PA 19104.** FAX: (215) 662-6891.

POSITIONS OPEN

POSTDOCTORAL POSITION: Available immediately for highly motivated M.D. or Ph.D. in viral molecular pathogenesis laboratory. Research areas include antibody-mediated restriction of viral gene expression, molecular regulation of virus-induced apoptosis, CNS viral pathogenesis. Background in molecular biology and virology preferred; interest in immunology or neurobiology desirable. Send curriculum vitae to: **Beth Levine, M.D., Department of Medicine, VHSC 1306, Columbia University College of Physicians & Surgeons, 701 West 168th Street, New York, NY 10032.** An Affirmative Action/Equal Opportunity Employer; women and minorities are encouraged to apply.

POSTDOCTORAL FELLOWS

POSTDOCTORAL POSITIONS available immediately for highly motivated scientists with training and research expertise in biochemistry, molecular biology or cell biology to study novel growth factors, growth factor receptors and related signal transduction mechanisms. Applicants should have a doctoral degree with strong background in molecular/cell biology. Send curriculum vitae and names of three references to: **Dr. Merle S. Olson, Department of Biochemistry, The University of Texas Health Science Center at San Antonio, San Antonio, TX 78284-7760.** An Equal Opportunity/Affirmative Action Employer.

NATIONAL MUSEUM OF NATURAL HISTORY POSTDOCTORAL FELLOWSHIP IN MOLECULAR EVOLUTION

Postdoctoral fellowships in molecular evolution are available for research in the Laboratory of Molecular Systematics at the National Museum of Natural History in Washington, DC. Research should concern molecular evolutionary genetics or systematics broadly defined; specific areas of interest include molecular phylogenetics, genetic studies of speciation process, and conservation genetics. Stipends are \$25,000 annually, plus a travel allowance. Tenures are for 12 to 24 months. Deadline: 15 February 1994. For information and applications, write: **Office of Fellowships and Grants, Desk MS, Smithsonian Institution, Washington, DC 20560.**

THE LOVELACE INSTITUTES

POSTDOCTORAL ASSOCIATE. Physiologist with training in respiratory, cardiovascular, or NMR physiology to conduct research on "Mechanisms and functional significance of hypoxia-induced hypothermia," an NIH-funded position; available January 1, 1994, for 1 or 2 years. Annual stipend is \$24,000 plus fringe benefits. Send curriculum vitae, description of research interests, and 3 letters of reference to: **Stephen C. Wood, Ph.D., Director, Cardiopulmonary Physiology Program, The Lovelace Institutes, 2425 Ridgcrest Drive SE, Albuquerque, NM 87108; Telephone: 505/262-7155.** An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION. Available immediately to study the mechanisms of amyloidogenesis. Experience in protein purification and/or molecular biology is preferred; familiarity with handling rodents is also desired. Please send/FAX a letter describing research interests, curriculum vitae, and names and telephone numbers of three references to: **Dr. Maria M. Picken, Pathology, Room 2700, Loyola University Chicago, 2160 South First Avenue, Maywood, IL 60153.** Telephone: (708) 216-4793; FAX: (708) 216-8482. *Loyola University is an Affirmative Action/Equal Opportunity Employer.*

SENIOR RESEARCH ASSOCIATE position available immediately to study the molecular and cellular basis of psychiatric disorders. Emphasis of research is on the role of brain monoaminergic neurons in the neurobiology of mood disorders and in the mechanism of action of drugs used to treat these disorders. Candidates should have a Ph.D. and/or M.D. with experience in biochemistry, biological psychology, molecular biology, or pharmacology. Salary is competitive and commensurate with experience. Send or FAX curriculum vitae, a statement of current and future research goals, and names of three references to: **Gregory A. Ordway, Ph.D., Department of Psychiatry and Human Behavior, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505; FAX: 601-984-5885.** *Equal Opportunity Employer, M/F/D/V.*

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION available for December 1993 to study the genetic regulation and expression of the human receptor for yeast β -glucans. Applicants must have a Ph.D. or M.D. with expertise in molecular biology. Send curriculum vitae, reprint of one publication, and names of three references to: **Dr. Joyce K. Czop, Department of Rheumatology and Immunology, Harvard Medical School, LMRC, 221 Longwood Avenue, Boston, MA 02115.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL ASSOCIATE NEURONAL NICOTINIC RECEPTORS

An NIH-funded position is available to join ongoing studies of synaptic co-transmission in sympathetic ganglia. Possible projects include: (1) cell-specific expression of receptors, (2) interactions between nicotinic and non-nicotinic synapses, and (3) development of receptor expression. This position requires a background in electrophysiology or receptor expression and previous experience with tissue culture. Salary level is consistent with NIH guidelines, commensurate with experience. For additional information call (412) 648-9429 or send curriculum vitae and names of three references to: **Dr. John P. Horn, Department of Neurobiology, E 1440 BST, University of Pittsburgh, School of Medicine, Pittsburgh, PA 15261.** For full consideration, applications should be received by December 1, 1993. *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available immediately to study the biochemistry and molecular biology of DNA repair mechanisms in *Drosophila*. Candidates should have a strong background in molecular biology or protein chemistry. Send curriculum vitae with names and numbers of three references to: **W. A. Deutsch, Department of Biochemistry, Louisiana State University, Baton Rouge, LA 70803.** FAX: 504-388-5321. Hire date: January 1, 1994; application deadline: November 30, 1993. *LSU is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE/ ASSISTANT SCIENTIST

Krannert Institute of Cardiology
Indiana University School of Medicine

A position is available at the Assistant Scientist level. The candidate must have postdoctoral experience in molecular biology with particular expertise in protein expression and construction of mutant and/or chimeric proteins. Work will involve research on selected enzymes of the vascular wall. Please send curriculum vitae to:

**David R. Hathaway, M.D.,
Director, Cardiovascular Division &
The Krannert Institute of Cardiology
Indiana University School of Medicine
1111 West 10th Street
Indianapolis, IN 46202-4800**

*Indiana University is an Equal Opportunity/
Affirmative Action Employer.*

ASSISTANT RESEARCHER

Oklahoma State University seeks applicants for an **ASSISTANT PROTEIN SPECIALIST.** The successful candidate will develop workshops and train research personnel in the isolation, characterization, and computer-aided molecular modeling of proteins. The individual will also direct technical personnel responsible for support services, such as peptide synthesis, HPLC, CE, and protein microsequencing. The opportunity exists for collaborative research with other faculty. Candidates should hold a Ph.D. in biochemistry, molecular biology, or related areas with emphasis on protein isolation, purification, and characterization techniques. This is an 11-month non-tenure-track faculty-level position initially supported for two years with excellent potential for continuation beyond that period. Consideration of applicants will begin December 1, 1993, and will continue until the position is filled. Applicants should provide curriculum vitae, a short description of their research interests, and three letters of recommendation to: **Dr. James B. Blair, Department of Biochemistry and Molecular Biology, Oklahoma State University, Stillwater, OK 74078-0454.** Telephone: 405-744-6189. *Oklahoma State University is an Affirmative Action/Equal Opportunity Employer.*



GLAXO INSTITUTE FOR MOLECULAR BIOLOGY

Research at the Glaxo Institute in Geneva is directed towards the discovery of novel molecular mechanisms that can be used as drug targets to treat serious diseases. In particular, research is focused on the CNS, allergies and inflammatory conditions. We have an outstanding opportunity for an

IMMUNOLOGIST to work on mouse transgenic models of inflammation.

The successful applicant will work with an interdisciplinary team of immunologists, biochemists and molecular biologists investigating asthma. Informal enquiries should be directed to Dr. Jean-Yves Bonnefoy (+41-22-7069723).

The Institute has a strong publication record, which the appointee will be expected to maintain. Attendance and presentation at scientific meetings is encouraged, as well as collaborative research with academic groups.

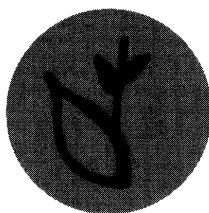
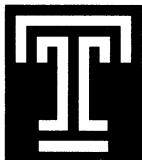
We offer an excellent compensation and benefits package and significant opportunities for career development. Geneva, situated in a very attractive part of Europe, has many advantages as a place to live. The Institute for Molecular Biology is part of the Glaxo group, one of the world's most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

If you are interested in this position, please send your curriculum vitae with a list of publications and the names of three referees to : Rita Gloor, Personnel Manager, Glaxo Institute for Molecular Biology S.A., 14, chemin des Aulx, 1228 Plan-les-Ouates, Switzerland.

Faculty Position in NMR Spectroscopy

The Fels Institute for Cancer Research and Molecular Biology and The Department of Biochemistry at Temple University School of Medicine seek applicants for a position at the Associate Professor level with research interests in macromolecular structure determination by NMR spectroscopy. The successful applicant will be the principal user of a new high-field NMR spectrometer. The candidate is expected to establish a strong externally funded research program that supports the mission of the research institute, and to participate in teaching programs in the School of Medicine. Send a curriculum vitae, a summary of research interests and the names of at least 3 references, by December 1, 1993, to: **Mrs. Jane McDonald, NMR Search Committee, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, Philadelphia, PA 19140.**

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



ciba

Research & Product Development Opportunities

The Regulatory and Product Development Team at Ciba's Agricultural Biotechnology Research Unit in Research Triangle Park, NC is seeking applicants for two positions responsible for the analysis of our transgenic plants and related data to support product safety in regulatory submissions.

The successful candidates will determine and conduct appropriate biochemical and molecular analyses including ELISAs and Western analyses. Incumbents will ensure that key projects are conducted in compliance with GLP regulations.

Successful candidates must have demonstrated excellent oral and written communications skills as they will be expected to interact extensively with all levels of scientific personnel within the corporation and may have outside contact with regulatory agencies.

Applicants should have a minimum MS degree (or equivalent) plus 4-6 years of directly related experience, or PhD with 2 years of related experience. Degree should be in biochemistry, molecular biology or closely related field. Experience with immunoassays from plant material and insect bioassays would be a plus.

Ciba offers competitive salaries, comprehensive benefits and excellent facilities. Please send c.v. and two letters of professional reference to: **Manager, Human Resources, Dept 9313, Ciba-Geigy Corporation, P.O. Box 12257, Research Triangle Park, NC 27709. Fax: (919) 541-8689. Applications must be received by November 20 to be assured consideration. We Are An Equal Opportunity Employer M/F/D/V.**

Faculty Position in Physical Biochemistry

The University of Calgary Department of Biological Sciences invites applications for a tenure-track faculty position at the Assistant Professor level in Physical Biochemistry. The Department offers honours and majors programs in biochemistry and features physical biochemistry courses at the 3rd and 4th year levels.

Qualifications: PhD degree with postdoctoral experience; a commitment to excellence in teaching at the undergraduate and graduate levels; a demonstrated ability to conduct productive research of high quality. Individuals specializing in any area of physical biochemistry are encouraged to apply. The successful applicant will participate in the teaching of undergraduate and graduate physical biochemistry courses. The salary range for an Assistant Professor is \$38,143 - \$58,401. The position is available July 1, 1994.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program and encourages applications from all qualified applicants, including women, aboriginal people, visible minorities, and people with disabilities.

Applicants should send a curriculum vitae; a concise outline of research directions and goals; and the names, addresses, telephone and fax numbers of three referees before December 30, 1993 to:

Dr. R.W. Davies, Head,
Department of Biological Sciences,
The University of Calgary, 2500 University Drive N.W., Calgary,
Alberta, Canada T2N 1N4. Facsimile: 403-289-9311



INTERNATIONAL CENTRE FOR
RESEARCH IN AGROFORESTRY

VACANCY ANNOUNCEMENT AGROECOLOGIST

The International Centre for Research in Agroforestry (ICRAF) belongs to the Consultative Group on International Agricultural Research (CGIAR)'s consortium of 18 international agricultural research centres. Its ultimate purpose is to help mitigate tropical deforestation, land depletion and rural poverty through the development of improved and sustainable agroforestry agricultural systems integrating trees and shrubs with crops and livestock.

ICRAF is filling a senior research position for an agroecologist who will work at ICRAF headquarters in Nairobi. This person will do interdisciplinary research on agroecosystem characterization and assess the impact of key agroforestry technologies on agroecosystems. Issues addressed will include the interface between the natural resource base of agroecosystems and socio-economic variables, the scaling of characterization parameters from the global level down to the plot level, the building of appropriate data bases for agroecosystem characterization, contribution to the building of integrated ecological-economic agroecosystem models. The scientist will also participate in ICRAF's training activities and will travel to selected ICRAF sites in Africa, Southeast Asia and Latin America.

Requirements are a Ph.D. in agroecology, physical geography, agroclimatology, or a related field with a minimum of 3 years of post-Ph.D. experience in internationally recognized research; experience with remote sensing techniques and in building GIS. Candidates should have strong conceptual skills and a systems orientation and must have published in refereed international journals. An excellent command of English is essential; fluency in Spanish and/or French is an advantage.

CONDITIONS OF EMPLOYMENT

This is an international core funded senior position. Appointments at ICRAF are for fixed periods of two years and are renewable for up to ten years in duration. The salary and benefits are competitive and include a cost-of-living allowance, annual home-leave travel and a comprehensive retirement and health package. Applicants are invited to send a detailed curriculum vitae, including date of birth and current salary details, the names and full addresses (including telephone, fax/telex) of three referees and copies of 3 publications. Applications should be addressed to the Head of Human Resources, International Centre for Research in Agroforestry, P.O. Box 30677, Nairobi, Kenya, Tel: (254-2) 521450; Telex: 22048; E-mail: CGI354, Fax: (254-2) 52101; Cable: ICRAF. Applications will be considered until 30 November 1993. Women are particularly encouraged to apply.

ICRAF IS AN EQUAL OPPORTUNITY EMPLOYER

DEPARTMENT OF BIOMEDICAL ENGINEERING THE CLEVELAND CLINIC FOUNDATION

Cardiac Assist and Replacement

The Department of Biomedical Engineering is seeking an individual with a doctorate in engineering and demonstrated experience in applied research and/or development of devices to assist or replace the diseased heart. Candidates without a doctorate but with considerable industrial or academic experience will be considered. The candidate will be the senior engineer in a multidisciplinary team of engineers, scientists, and clinicians conducting R&D projects related to the development of an implantable Artificial Heart.

Heart Valve Mechanics

The Department of Biomedical Engineering is also seeking an individual with a doctorate in engineering and demonstrated experience in solid and/or fluid mechanics of natural and prosthetic heart valves. The candidates will lead a growing multi-disciplinary team of engineers, scientists, and clinicians which conducts basic and applied research and device development of heart valves.

The successful candidates will be expected to develop new research, secure extramural funding to support these activities, and participate in the graduate education program. Currently 22 Biomedical Engineering Graduate Students are conducting their research activities in the department. Appointment will be at the full staff level (full professor equivalent) at The Cleveland Clinic Foundation with the potential for appointment as a faculty member at The Ohio State University. The successful candidate will work closely with the clinical Departments of Cardiology and Thoracic & Cardiovascular Surgery. The Cleveland Clinic Research Institute is organized into eight interactive departments (Biomedical Engineering, Biostatistics & Epidemiology, Cancer Biology, Cardiovascular Biology, Cell Biology, Immunology, Molecular Biology and Neurosciences) with 270 staff and junior scientists supported by 240 technical and administrative personnel. The Department of Biomedical Engineering with a staff of over 100 members receives funding from the National Institutes of Health and other philanthropic and industrial sources, as well as internal support from The Cleveland Clinic Foundation.

Applicants should send resume in confidence to:

J.F. Cornhill, Chairman
Department of Biomedical Engineering (Wb3)
The Cleveland Clinic Foundation
9500 Euclid Avenue, Cleveland, OH 44195
Telephone: (216) 445-6980
FAX: (216) 444-9198

The Cleveland Clinic is an Equal Opportunity/Affirmative Action Employer



THE UNIVERSITY
OF QUEENSLAND

Equal opportunity in employment is University policy

Postdoctoral Positions

Vision, Touch and Hearing Research Centre

Three postdoctoral positions are open at the Vision, Touch and Hearing Research Centre, The University of Queensland (a Commonwealth Special Research Centre, Director: Professor J.D. Pettigrew FRS).

1. Director's Unit: Comparative Neuroscience.
2. Hearing Unit: Electron microscopist to work on hair cell mechanotransduction, development and repair, with Dr James O. Pickles. Techniques used include molecular biology, organ culture, scanning and transmission electron microscopy, and experience with the latter is essential.
3. Vision Unit: To work with Dr D.I. Vanev on the structure and function of the vertebrate retina.
4. Touch Unit: The Touch Unit (Dr M.B. Calford) conducts neurophysical experiments on plasticity of the sensory cortex of adults.

The appointments are until December 1996.

Appointments on ARC Research Associate or ARC Senior Research Associate Scales (A\$34,953 - \$38,950 p.a. or A\$41,000 - \$48,688 p.a.). Return fare to take up appointment, plus travel allowance for yearly attendance at international meetings are provided. Send CV and names, addresses, fax and/or email addresses of three referees to Julie McAuliffe, V.T.H.R.C., Department of Physiology and Pharmacology, The University of Queensland, Qld 4072, Australia, stating for which unit applying, by 1 January 1994. Reference No. 42793.

FACULTY POSITION

Center for Neural Science

The Center for Neural Science of New York University invites applications for a tenure-track faculty position in the general area of cognitive and/or computational neuroscience. Candidates should be able to demonstrate excellence and originality in experimental and/or theoretical research. The appointment may be made at any level. The Center for Neural Science is an autonomous interdepartmental unit of the Faculty of Arts and Science. Members of the Center hold primary appointments in the Center and are also affiliated with one or more academic Departments. Candidates should send a curriculum vitae, a statement of current research interests, copies of recent relevant publications, and the names and addresses of three or more individuals willing to provide letters of reference to: **Prof. J. Anthony Movshon, Center for Neural Science, New York University, 4 Washington Place, Room 809, New York, New York 10003.**

NYU encourages applications from women and members of minority groups.

Be a part of our growth!

Therion Biologics Corporation, located in Cambridge, Massachusetts, is developing immunotherapeutics and vaccines for infectious diseases and cancer. As the lead organization in an NIH funded National Cooperative Vaccine Development Group for AIDS, we are working in close cooperation with eminent scientists at major universities and the NIH to develop AIDS therapeutic/vaccine products. Clinical trials of the first of our AIDS vaccines are expected to begin later this year. In addition, we have several ongoing collaborations with scientists at the National Cancer Institute to develop therapeutic vaccines for cancer; the first cancer vaccine arising from these collaborations has recently entered clinical trials.

Senior Staff Scientist - Virology/Tissue Culture

We are currently seeking a Sr. Staff Scientist to be responsible for initiating, directing and executing scientific research and development in all areas of cell culture/virology. In this high visibility position, you will supervise a technical staff and interface with various departments including molecular biology, process development, manufacturing and QA/QC, to help bring potential products from the research stage through clinical development. Requirements include a minimum of 4-6 years' post-graduate experience in an academic or industry research environment with technical proficiency in virology/cell culture, including broad experience in multiple systems. You must be an independent thinker with demonstrated success in scientific creativity, and have hands-on supervisory experience.

Our lab facilities are state-of-the-art and our East Cambridge location is in the heart of the state's fastest growing bio-tech area. Excellent compensation, benefits and growth opportunities. Please fax you resume to (617) 876-9391 or mail to: Human Resources, Therion Biologics Corporation, 76 Rogers Street, Cambridge, MA 02142. An Equal Opportunity Employer M/F/D/V.

THERION
BIOLOGICS

DIRECTOR OF SCIENCE

The Nature Conservancy (TNC) seeks a Director of Science to lead its science and stewardship programs. The Director is responsible for all aspects of the Division including strategic and annual planning; fund-raising; managing a large, decentralized professional staff; enhancing Conservancy systems for biological information management and the international Network of Natural Heritage Programs and Conservation Data Centers; and collaborating with diverse domestic and international agencies and organizations on conservation issues.

Requirements include: documented participation as a leader in national and international scientific and policy forums on conservation issues; understanding these issues at the ecosystem and landscape level; experience with information systems; demonstrated managerial skills; Ph.D. in the biological sciences. The Director reports to TNC's President, serves as a member of the Conservancy's management committee, works closely with scientists on TNC's Board and serves as principal liaison to TNC's Science Advisory Committee.

All inquiries and responses held in confidence. Reply to:

The Nature Conservancy
International Headquarters
Human Resources Department
1815 North Lynn Street
Arlington, VA 22209



The Nature Conservancy is an Equal Opportunity Employer.

THE

BIOGEN

MISSION

Biogen is a dynamic young biotechnology company principally engaged in developing genetically engineered human pharmaceuticals. Now in our 16th year, we are one of the few profitable biotech companies in the U.S. Revenues come from five products -- including **Intron (RIA)** alpha interferon and hepatitis B vaccines and diagnostics -- sold throughout the world by licensees or affiliates. Current research is directed toward the discovery and development of proprietary products to treat inflammation, cardiovascular disease, AIDS and certain cancers.

Research Scientist - Molecular Genetics

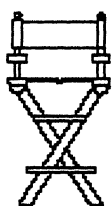
We are seeking a creative scientist to enhance our research efforts in the area of molecular genetics. The successful candidate will play a critical role in the development of novel cloning/screening techniques and the generation of new libraries. In addition, this individual will augment our efforts in vector development and expression cloning. Ideal candidates would possess a PhD in an appropriate discipline and experience in genomic and/or cDNA library construction. A knowledge of the molecular biology of cytokines/cytokine receptors, adhesion molecules or immunoglobins is preferred, as is the ability and willingness to work in a multi-disciplinary research team environment.

Biogen offers what few companies in our industry can - Scientific Challenge, Stability, Profitability, and Growth. In addition, our compensation and benefits package, which includes relocation assistance, is one of the best in the industry, and is designed to attract and retain the finest talent available. If you are one of the best, you have an opportunity to join us now.

We encourage your immediate response. Please forward your resume to Biogen, Inc., Dept. SM-115, 14 Cambridge Center, Cambridge, MA 02142; FAX# (617) 252-9595. Biogen is an Equal Opportunity Employer.

BIOGEN

1994 Recruitment Advertising Sneak Preview:



West Coast Biotechnology/ Pharmaceutical Careers

11 February

Bonus distribution:
**Biotechnology/Pharmaceutical
Job Fairs**

11-12 February, New Jersey
25-26 March, La Jolla, CA

East Coast Biotechnology/ Pharmaceutical Careers

1 April

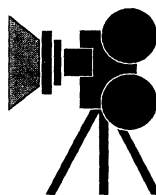
Bonus Distribution:
**Biotechnology/Pharmaceutical
Job Fairs**

22-23 April, Cambridge, MA
13-14 May, Chevy Chase, MD
Experimental Biology (FASEB)
24-28 April, Anaheim

Women In Science 11 March

Bonus distribution:
**Biotechnology/Pharmaceutical
Job Fairs**

25-26 March, La Jolla, CA
22-23 April, Cambridge, MA



B.S./M.S. Careers

26 August

Bonus distribution:
**Top 50 Universities in the U.S.--
Chemistry and Biology Depts.**

For more information on any of these
special issues, call Janis Crowley,
Recruitment Advertising Manager, at
212-496-7704.

In Europe,
contact Annemarie Vis
on 44-223-302-067.

Careers IV

23 September

Bonus distribution:
**Biotechnology/Pharmaceutical
Job Fairs**

23-24 September, La Jolla, CA
30 September, 1 October,
Cambridge, MA

SCIENCE

RESEARCH DIRECTOR

A unique, newly created position exists for an experienced manager to guide the research efforts for a biotechnology industry leader. This position is integral to the continued success of a market driven discovery process with global emphasis. In addition to facilitating self-directed research teams in microbial screening, molecular biology, strain development and biochemistry, you will share responsibility for new business development, patenting, university and community relations.

This position requires progressively responsible experience in biotechnology, agricultural biotechnology or agrichemical industry, a Ph.D. in biochemistry, biology or related field, and an exceptional record of achievement in technology, management and community leadership. With a focus on creativity, you must possess an action orientation dedicated to moving projects forward to product development and reducing time of lead candidates in each research function.

Novo Nordisk Entotech, Inc. is a wholly-owned subsidiary of Novo Nordisk the world leader in the development and manufacture of insulin and the world's largest producer of industrial enzymes. Headquartered in Denmark, Novo Nordisk employs over 10,000 people in 40 countries.

Entotech is dedicated to the discovery and development of proprietary, new, microbially-based biopesticides. Established in 1990, we are located in a northern California university setting near skiing, sailing, hiking and bike trails. If you are a highly motivated, energetic, innovative individual who likes working in a fast paced, multi-cultural, team oriented environment, please send your resume and 3 references, including one of someone who worked under your direction.

Dr. Pam Marrone,
President Novo Nordisk Entotech, Inc.
1497 Drew Avenue
Davis, CA 95616-4880
Fax (916) 757-4789

We are an equal opportunity employer.
No search firm referrals, please.

Novo Nordisk



UNIVERSITY OF ALABAMA AT BIRMINGHAM

Postdoctoral Fellowships in Molecular Virology

Postdoctoral traineeships are available through NIH training grants in the broad areas of Viral Oncology and basic Molecular Virology. Research programs include virus structure, replication mechanisms, assembly, immune recognition, protein structure and function, oncogenesis, viral vectors, and vaccine/drug development. Viruses under study are: retroviruses, including HIV and SIV, (preceptors include E. Hunter, B. Hahn, G. Shaw, P. Fultz, C. Morrow), influenza viruses (G. Air, M. Luo), picornaviruses (M. Luo, C. Morrow), VSV and respiratory syncytial virus (G. Wertz), nodavirus and vaccinia virus (L.A. Ball), adenoviruses (J. Engler), papilloma viruses (T. Broker, L. Chow), and herpesviruses (R. Whitley, W. Britt).

These fellowships are only available to U.S. citizens or permanent residents. We regret that we cannot receive applications from foreign nationals.

Applications and inquiries should be sent to:

Dr. G. Air or Dr. E. Hunter
Department of Microbiology
University of Alabama at Birmingham
UAB Station
Birmingham, AL 35294

An affirmative Action/Equal Opportunity Employer

P

ioneer Hi-Bred International, Inc. is a world leader in agricultural genetics. Founded in 1926, we are a publicly held corporation with research, production and sales organizations on every crop-producing continent. Our dynamic Department of Biotechnology Research is currently seeking motivated and experienced professionals to join us in our ongoing program of crop improvement.

RESEARCH ASSOCIATES

Molecular Entomology

(Job # 2353-LaMotte)

You will be part of a successful, multi-disciplined research group involved in the development of insect resistance. Extensive collaboration with other groups will be required to identify potential material and determine the effect on target insects. We require an MS degree or equivalent laboratory experience in entomology, biochemistry or biology, with extensive knowledge of protein biochemistry. Expertise with insect dissections, computers and statistics is essential.

Plant Pathology

(Job # 1358-D-LaMotte)

Responsibilities include the development and implementation of bioassays to evaluate efficacy of genes introduced for disease resistance, with emphasis on fungal diseases of maize. Requirements include a BS degree or equivalent plus 2 years lab experience in agriculture or plant science (or an MS degree), strongly focusing on plant pathology.

Corn Transformation

(Job # GS-ZZ-Jorgensen)

Immediate openings are available in the development and evaluation of new technology for the genetic transformation of maize. Requirements include a BS degree or equivalent plus 2 years directly related lab experience (or an MS degree). Specialized skills in such areas as plant/maize tissue culture, transformation, cell biology or related discipline are desired. Knowledge of one or more of the following areas is also recommended: experimental design, technology development, molecular biology, computers and statistical analysis.



PIONEER

**PIONEER HI-BRED
INTERNATIONAL, INC.**

Pioneer Hi-Bred offers excellent compensation, benefits and career growth potential, as well as excellent facilities and a highly cooperative research environment. **Please send TWO resumes by December 3, 1993, indicating the job # in your correspondence and on the envelope, to: Pioneer Hi-Bred International, Inc., Department of Biotechnology Research, PO Box 1004/Pony Stop 35, Johnston, IA 50131-1004. We are an Equal Opportunity Employer.**

POSITIONS OPEN

PROTEIN CHEMIST THE UNIVERSITY OF TEXAS

The newly established Institute of Molecular Biology invites applications for the director of a protein sequencing facility. The position is available immediately, and applicants should hold a Ph.D. and be highly experienced in state-of-the-art methodology and instrumentation including protein purification, sequencing and analysis, and peptide synthesis; should be able to lead in further development of the facility; would be expected to provide consultation and training in techniques. Salary negotiable. Interested applicants should send curriculum vitae, statement of experience, research interests, names and addresses of at least 3 references who may be contacted. Send application to: **Prof. Austen F. Riggs, Chairman Search Committee, Department of Zoology, University of Texas, Austin, TX 78712. An Affirmative Action/Equal Opportunity Employer.**

AQUATIC ECOLOGIST/FISHERIES BIOLOGIST—U.S. Fish and Wildlife Service. We invite applications for a Research Fisheries Biologist (GS-482-11/12) to become the Assistant Unit Leader of the Utah Cooperative Fish and Wildlife Research Unit. Located in the Department of Fisheries & Wildlife at Utah State University, Logan, Utah, the Unit will become part of the National Biological Survey when authorized by Congress. The new faculty member should complement our existing group of aquatic and fishery ecologists working to provide management solutions for aquatic systems of concern to federal and state resource management agencies in the west. All interested aquatic/fisheries ecologists are encouraged to apply. Persons with quantitative expertise in any of the following fields would complement our group: fish population dynamics, trophic dynamics, physiological ecology, population genetics, and conservation and restoration biology. Federal advertisement should appear on the OPM Register and USFWS Green Sheet from 1 to 30 November 1993. For details on how to apply through the federal system, contact: **Dr. John Bissonette or Dr. Tom Edwards (Telephone: 801-750-2509, FAX: 801-750-4025). USFWS is an Equal Opportunity Employer.**

STAFF SCIENTIST

A staff scientist position is available to conduct basic and applied research on DNA analysis by advanced techniques such as capillary electrophoresis. Specific areas of interest include high-speed fluorescence DNA sequencing, PCR and mutational analysis, and gene expression studies.

A Ph.D. degree in molecular biology or biochemistry is required. Applicant should have a minimum of 2 years of postdoctoral experience in recombinant DNA technology and nucleic acid biochemistry. Salary range is dependent on experience. Candidates should send résumé to:

**Professor Barry L. Karger, Director
Barnett Institute
Northeastern University
360 Huntington Avenue
Boston, MA 02115**

Northeastern University is an Equal Opportunity/Affirmative Action Employer.

SPACE BIOREACTOR ENGINEER

KRUG Life Sciences Biotechnology Laboratory at the NASA Johnson Space Center invites applications to fill the position, "Space Bioreactor Engineer." Applicants must have a Ph.D., or equivalent, with at least 10 years of experience in a physical science with a strong engineering background and demonstrated, pertinent, applied expertise in the biological sciences related to instrumentation development. Particularly helpful is experience with sensors and actuators to monitor and control cell growth processes in ground and microgravity-based bioreactors. The successful candidate will develop significant research programs in space biotechnology reactors. Projects of current interest include sensor systems capable of on-line, rapid, and selective measurements in real time, and to provide improved sensor specificity and selectivity for the determination of nutrients, waste products, and biomolecules.

Interested applicants should submit current résumé, a list of references, and salary history **INDICATING POSITION #93-124-07 to: KRUG Life Sciences Inc., Human Resources Department, P.O. Box 58827, Houston, TX 77258-8827. Employment eligibility verification required. Equal Opportunity Employer, M/F/H/V. Smoke-free workplace.**

POSITIONS OPEN

M.D. MICROBIOLOGIST

Witkar Saudi Arabia and the Royal College of Ireland will have a vacancy at its managed hospital in Tabuk, Saudi Arabia, for an M.D.-Microbiologist. The successful candidate should have appropriate certification and should have three to five years of experience in a hospital laboratory environment. We offer an excellent benefit package including family status contract. Interested candidates please contact **Jim Marler.**

**Arabian Careers, Ltd.
Suite 410
5335 Wisconsin Avenue, N.W.
Washington, DC 20015
Telephone: (202) 362-0898
or (800) 999-9725**

BIOLOGY POSITIONS

Kennesaw State College is recruiting two positions for September 1994: a broadly trained vertebrate physiologist, Ph.D. in Biology required; and an instructor position, all areas of biology considered, M.S. required. Candidates should have a strong commitment to teaching undergraduate courses, to conducting applied research and to participating in college service activities. Send a letter of application, résumé, a description of teaching interests and scholarly plans and names, addresses and telephone numbers of three references to: **Dr. Jerald Hendrix, Department of Biological and Physical Sciences, Kennesaw State College, P.O. Box 444, Marietta, GA 30061. Kennesaw State College is an Affirmative Action/Equal Opportunity Employer. Positions open until filled. To assure consideration, application must be received by December 10, 1993.**

The University of Michigan Medical School, Department of Radiology seeks to recruit a **MUSCULOSKELETAL RADIOLOGIST** to take part in the programs of patient care, teaching, and research in the Department of Radiology. Qualified applicants must hold an M.D. or equivalent foreign medical degree and must be American Board of Radiology-certified or board-eligible or equivalent foreign board-certified. Previous training or work experience in an academic institution as well as demonstration of previous academic research and teaching experience are desirable. Academic rank will depend on qualifications and experience. Interested applicants should contact: **N. Reed Dunnick, M.D., Chairman, Department of Radiology, The University of Michigan Medical School, Ann Arbor, MI 48109-0030. A Nondiscriminatory, Affirmative Action Employer.**

RESEARCH NEWS WRITER

The **JOURNAL OF NIH RESEARCH** wishes to hire a full-time biomedical science journalist for its staff in Washington, D.C. Candidate should have a graduate degree in biological science, Ph.D. preferred, and writing experience. Lively writing style and a sense of news are essential.

Send résumé, writing samples and names of three references to:

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Biotechnology and Pharmaceutical Search International, an executive search firm specializing in placing biotechnology and pharmaceutical professionals, has openings in R&D, Process Development, Regulatory and Clinical Affairs, QA/QC, and Sales and Marketing. Interested parties please contact: **BPS International, 63 Calle de Industrias, Suite 454, San Clemente, CA 92672. Telephone: 714-492-9911, FAX: 714-492-1629.**

POSITIONS OPEN

Major research university has an opening for a **STAFF NMR SPECTROSCOPIST**. •Duties: Provide electronics and operational support for the high field NMR facility. Assist with instruction, including short courses in the operation of the equipment, assist with instrument set-up and hardware modifications for advanced experiments, maintain history and service logbooks for each spectrometer, and maintain inventories of consumable supplies in the laboratory. •Minimum requirements: B.S. in physical sciences or engineering. Two years of experience with the operation and electronics/service support of modern NMR spectrometer; with computer-controlled instrumentation, trouble-shooting of modern digital and rf electronics as applied to NMR spectroscopy; in computer programming and networking. A working knowledge of modern computer operating systems, especially UNIX. Ability to interact effectively, including collaborative research efforts, with a diverse community of students, faculty and staff. A salary of \$38,894 per year and competitive benefits package is offered. Applicants should send a résumé to: **Kathy Malo, Job Order #TN1402966, Job Service Program and Technical Support, Tennessee Department of Employment Security, Nashville, TN 37245-1200.**

MOLECULAR BIOLOGIST/IMMUNOLOGIST SENIOR SCIENTIST

Medarex, a biopharmaceutical company developing therapeutics for cancer, AIDS and other life-threatening diseases, is seeking a molecular biologist with immunology experience with at least 2 years of postdoctoral experience and a good publication record for research into reagents to direct or modulate phagocyte function. Phagocyte-targeted therapeutics are under development for killing of tumor cells and infectious agents and for enhancement of antigen presentation. The successful candidate will participate in the design, development, genetic construction and pre-clinical testing of unique bispecific reagents for the treatment of human diseases. Please forward curriculum vitae and the names of three references to: **Lisa Drakeman, Ph.D., Director of Administration, Medarex, 22 Chambers Street, Princeton, NJ 08542. Medarex is an Equal Opportunity Employer.**

ENVIRONMENTAL RISK ASSESSMENT ANALYST: Washington-based consulting firm to Fortune 100 clients seeks analyst with graduate-level training in risk assessment, radiation/life sciences. Prefer 2 to 3 years of experience working with EPA Superfund and Hazardous Waste programs. Also, prefer training in either economics/business or law. Good communication skills a must. Send résumé to: **Box 42, Science Classified Advertising, 1333 H Street, N.W., Room 814, Washington, DC 20005.**

ANNOUNCEMENTS

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January 31–February 1, 1994: Hyatt Ricketts, Palo Alto, California.

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CYTOGENETICIST

The Department of Pathology and Laboratory Medicine at St. Jude Children's Research Hospital, Danny Thomas, *Founder*, is seeking a full time board certified or eligible cytogeneticist. Preferentially, candidates should have experience in the cytogenetics of neoplasia and related molecular techniques. The position would provide a qualified individual the opportunity to introduce new technologies and participate in the growth and expansion of the department. A Ph.D. in cytogenetics or related science is required. The level of appointment will be determined by background and training experience. Send CV, names of three references, and a letter of interest to:

Susana C. Raimondi, Ph.D.
Director, Cytogenetics Laboratory



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WORLD HEALTH ORGANIZATION INTERNATIONAL AGENCY FOR RESEARCH ON CANCER LYON, FRANCE Unit of Field and Intervention Studies is looking for an: **EPIDEMIOLOGIST**



The I.A.R.C. conducts a broad range of studies in the fields of cancer cause and prevention. There are a large number of epidemiological projects in collaboration with investigators throughout the world, and an extensive experimental programme. The Unit of Field and Intervention Studies conducts research in two main fields:

- (1) Investigation of the role and infectious agents and other risk factors in the causation and human cancer and
- (2) Implementation of intervention studies using the information derived from the above and other aetiological studies.

The major role of the successful applicant will be to assist in the development of the programme related to the implementation of epidemiological studies using up-to-date laboratory techniques to study the role of human papillomavirus, *Helicobacter pylori* and other infectious agents in human cancer. In addition he/she will be expected to assist in the initiation and coordination of intervention studies. Both tasks involve the establishment of contacts with researchers throughout the world, and the coordination of collaborative projects. The applicants should have a postgraduate degree or equivalent in epidemiology/public health or in biostatistics, at least five years' postdoctoral experience and demonstrated ability to conduct research in the epidemiology of non-infectious disease. Expertise in computing, and experience in cancer epidemiology are both considered advantageous.

Annual salary (net of tax): US\$42,103 at single rate and US\$45,271 with primary dependents, plus a cost of living element which is at present 45, 60% of the above figures. This percentage is to be considered as indicative since variations may occur each month either upwards or downwards. A recruitment is expected by mid-1994 for an initial period of 2 years, with possibility of renewal. Those interested should write enclosing a brief curriculum vitae to:

Personnel Office
I.A.R.C.
150, Cours Albert Thomas
F-69372 Lyon cedex 08
France
Fax No.: 72 73 85 75

Candidates will be contacted only if they are under serious consideration.



Professor and Director of Campus Chemical Instrumentation Center The Ohio State University

The Ohio State University seeks a senior faculty member to direct the Campus Chemical Instrumentation Center (CCIC). The position will likely be filled at the full professor level and includes a half time appointment in an academic department appropriate to the candidate, selected from but not limited to the departments of Biochemistry, Chemistry, the College of Pharmacy and/or the College of Medicine. Qualified candidates should have a Ph.D. in Chemistry or a related field, and experience in mass spectrometry or nuclear magnetic resonance spectroscopy. The CCIC currently provides service and teaching functions to the university community, involving three full time staff scientists, three high field NMR's (300, 500, and 600 MHz), and three mass spectrometers of various configurations. The CCIC director will conduct an active research program in NMR, MS, or a related area, will direct the CCIC staff, and will provide leadership in joint instrumentation proposals. The director reports to the Vice President for Research, and will be actively involved in the teaching and research activities of the relevant department(s).

Interested applicants should send a curriculum vitae, brief statements of research and teaching plans, and names and addresses of three references to Richard L. McCreery, Department of Chemistry, 120 West 18th Avenue, Columbus, Ohio 43210. Tel: 614-292-2021, fax: 614-292-1685, Internet: McCreery.2@osu.edu. Review of applications will begin on January 15, 1994. The Ohio State University is an Equal Opportunity, Affirmative Action Employer. Women, minorities, Vietnamese veterans, disabled veterans an individuals with disabilities are encouraged to apply.

THE DEPARTMENT OF COGNITIVE SCIENCE AT THE JOHNS HOPKINS UNIVERSITY expects to make an appointment in the study of human cognition. We seek an individual with a proven record of research and teaching strength in (or implicating) at least two of the following areas within Cognitive Science: Linguistics, Computation and Artificial Intelligence, Cognitive Neuroscience, and/or Cognitive Psychology and Neuropsychology. A focus on the computation modeling of (aspects of) human cognition is desirable. The interests and accomplishments of the individual appointed should serve to bring together scholars from a variety of fields within the University. The appointment will probably be at a senior (Full Professor) level, but outstanding candidates at lower levels will be considered. In addition to the work of faculty in the Department of Cognitive Science, other relevant areas of research in other Departments include Neuroscience (Krieger Mind/Brain Institute), Cognitive Development (Department of Psychology), speech production and perception (Center for Speech Processing), vision, motor control, and others. The successful candidate will be a researcher whose interests in the modeling of cognition are related to a broad range of ongoing and potential work, helping to provide a focus for a broad but unified understanding of the nature of cognition. S/he must have a demonstrated ability to instigate and direct visionary research programs not constrained by traditional disciplinary boundaries, as well as the personal and organizational skills necessary to interact productively with a variety of research groups within the University. Women and members of under-represented minorities are especially encouraged to apply. In addition to a CV and the names of potential references (please do NOT provide actual letters of reference at this time), applications should include a statement of how candidates see the relation of their work to the broader study of the Mind/Brain. Please send this material to: Chair, Cognitive Science Search Committee, Department of Cognitive Science, The Johns Hopkins University, Baltimore, MD 21218. The Johns Hopkins University is an Equal Opportunity, Affirmative Action Employer.

DEPARTMENT OF BIOCHEMISTRY AND MICROBIOLOGY UNIVERSITY OF VICTORIA VICTORIA, BRITISH COLUMBIA CANADA

The Department of Biochemistry and Microbiology invites applications for a full-time, tenure-track appointment at the Assistant Professor level in an area of biochemistry or molecular biology. The successful candidate will be expected to teach in our graduate and undergraduate programs and to establish a vigorous independent research program.

Our Department consists of 12 Full-time faculty member with strong research programs in molecular aspects of Biochemistry and Microbiology. Current departmental enrollment is 200 undergraduate majors, 18 M.Sc. students and 13 Ph.D. students.

The deadline for applications is February 1, 1994. Applicants should send their curriculum vitae, together with copies of recent publications, a short description of future research interests, and the names and addresses of three referees to:

Dr. Rozanne Poulson
Faculty Search Committee
Department of Biochemistry and Microbiology
University of Victoria
P.O. Box 3055, Petch Building
Victoria, British Columbia V8W 3P6
Canada

Applicants are advised to ask their referees to send confidential reports directly to the Department without waiting to be contacted.

The appointment will be made in accordance with Canadian Immigration requirements. Priority will be given to Canadian citizens and permanent residents of Canada. The University of Victoria is an employment equity employer and encourages applications from women, persons with disabilities, visible minorities, and aboriginal persons.

1994-95

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Congressional

AAAS Congressional Science & Engineering Fellows Program

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Technology Policy

AAAS-Sloan Executive Branch Science & Engineering Fellows Program, and the AAAS-Critical Technologies Institute Science & Engineering Fellows Program

Fellows spend one or two years, working in either the White House Office of Science and Technology Policy, or the RAND Critical Technologies Institute, providing expertise in industrial research and development, technology transfer, international competitiveness, and related issues. At least one Fellow will be selected for each program. Applicants must have a minimum of five years industrial experience, as midlevel or senior executives. Stipends are negotiable, depending on qualifications and experience. Applicants must be U.S. citizens.

Diplomacy

AAAS Science, Engineering, & Diplomacy Fellows Program

Fellows work in international affairs on scientific and technical subjects for one year, either in foreign policy at the U.S. Department of State or in international development for the U.S. Agency for International Development. One Fellow will be selected at State to focus in the areas of biodiversity and conservation and approximately 12 Fellows will be selected at USAID. The annual stipend varies with experience, starting at approximately \$40,000. Applicants must be U.S. citizens.

Environmental

AAAS Environmental Science & Engineering Fellows Program

Fellows work as special research consultants with the Office of Research and Development (ORD) of the U.S. Environmental Protection Agency for 10 weeks in the summer. The detailed, future-oriented research assists ORD in assessing the significance of long-range environmental problems. The stipend is \$1,000 a week. Applicants must be U.S. residents. Ten Fellows will be selected.

Applicants should be postdoctoral to midcareer scientists and engineers, from any physical, biological, or social science or any field of engineering. The programs are designed to provide each Fellow with a unique public policy learning experience; to make practical contributions to the more effective use of scientific and technical knowledge in the U.S. government; and to demonstrate the value of science and technology in solving important societal problems. All Fellows participate in a rigorous orientation on the relevant congressional and executive branch operations and foreign affairs plus a year-long seminar series on issues involving science, technology, and public policy. The Congressional, Diplomacy, and Technology Policy programs begin in September 1994, and the Environmental program begins in June 1994.

All application deadlines are January 15, 1994.

For additional program information and application instructions, write:

Fellowship Programs/Directorate for Science and Policy Programs
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005 202/326-6600



University of Umeå, Sweden

PROFESSOR OF STRUCTURAL BIOLOGY

Ref: 321-1999-93

Applications are invited for a position as full professor of structural biology with special emphasis on X-ray crystallographic studies of biological macromolecules.

The position is associated with a new interdisciplinary research center, Umeå Center of Molecular Pathogenesis, which is presently being formed. This center will initially be devoted to different aspects of programmed cell death or related research fields. The Center will be located in a new building (completed April 1994) also including the Departments of Microbiology and Cell and Molecular Biology, both leading research establishments in Scandinavia. The scientific community is comprised of several additional, internationally competitive groups in the fields of cell biology, immunology, chemistry and biochemistry.

Candidates should have a distinguished record of research in the area of biomolecular X-ray crystallography as well as documented teaching qualifications. The successful candidate will obtain adequate resources to carry out independent research and is expected to interact with other research groups within the Center.

Further information (including application procedure) can be obtained from **Professor Sven Lindskog, Department of Biochemistry, University of Umeå, S-90187 Umeå, Sweden. Phone: +46-90-165387. Fax: +46-90-167661.**

The closing date for completed applications is February 1, 1994.

Director and Professor Division of Biology Kansas State University

The Division of Biology seeks applications and nominations for an individual to lead a dynamic teaching and research unit. The Division, a unit of the College of Arts and Sciences, has 60 faculty/staff, 62 graduate students, 36 postdoctoral researchers, 17 support staff, and over 500 undergraduate majors. Undergraduate degrees are offered in Biology, Microbiology, and Fisheries and Wildlife. The Division is organized into five sections (Genetics, Developmental and Cell Biology, Microbiology and Immunology, Physiology, Systematics and Ecology, and Virology and Oncology) and includes several major research units. Extensive extramural funding and the Kansas Agricultural Experiment Station support a strong research program at the M.S., Ph.D., and postdoctoral level.

The Director will be responsible for the administrative leadership and future development in research, instruction, and service of the Division. In addition to evidence of administrative ability, essential qualifications include a record of outstanding accomplishment in research and instruction commensurate with the rank of Professor and commitment to the goals of Affirmative Action. Candidates should submit a statement of experience (including that pertaining to the breadth of disciplines in the Division) and career goals, and curriculum vitae, and the names, addresses, telephone and FAX numbers of five persons capable of providing information on the applicant's qualifications. Applications or nominations should be addressed to Dr. O.J. Reichman, Biology Directorship Search Committee, c/o Dean of Arts and Sciences, Eisenhower Hall, Kansas State University, Manhattan, KS 66506-1005. Evaluation of applications will begin December 20, 1993.

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The qualified individual will join a team of Scientists to study heterologous gene expression in yeast cells; reconstitution of hormone responsive transcription units in yeast cells to dissect signal transduction pathways of ligand-activated transcription factors. Candidate must have a BS/MS in Biological Science with experience in yeast genetics and molecular biology. Additionally, the individual will have good computer skills pertaining to data analysis. Knowledge in yeast genetic systems to detect protein-protein interaction and to isolate genes by complementation would be highly desirable.

For consideration, please forward your resume to: Medical Research Division, Personnel, Lederle Laboratories, Dept. #960 (PM), 401 N. Middletown Road, Building 140, Room 224, Pearl River, NY 10965. An equal opportunity employer.



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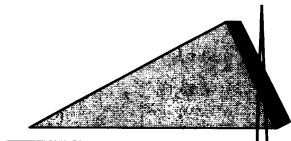
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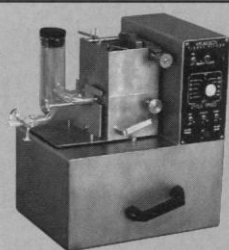
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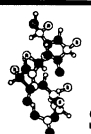
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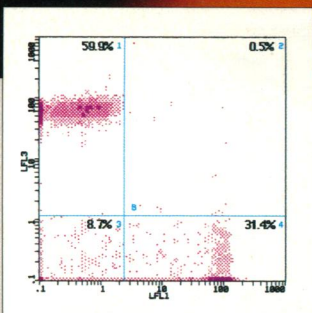
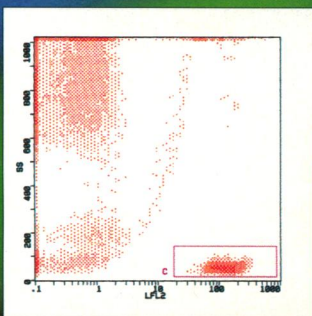
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