

utor, WHO Publications Centre USA, Albany, N.Y.). viii, 320 pp., illus. \$35. IARC Scientific Publications No. 6.

A Physician's Handbook on Orthomolecular Medicine. Roger J. Williams and Dwight K. Kalita, Eds. Pergamon, New York, 1977. xiv, 200 pp. \$15. *To order this book circle No. 406 on Readers' Service Card*

Physik für Naturwissenschaftler I. Mechanik und Wärmelehre für Chemiker, Biologen, Geowissenschaftler. Hugo Neuert. Bibliographisches Institut, Mannheim, 1977. vi, 174 pp., illus. Paper, DM 12.80. B.I.-Hochschul-taschenbücher, Band 727.

Pioneer Work in Opening the Medical Profession to Women. Autobiographical sketches by Dr. Elizabeth Blackwell. Schocken, New York, 1977. xxii, 264 pp. Paper, \$4.75. Reissue, with new introduction, of 1895 edition.

Plant Disease. An Advanced Treatise. Vol. 1, How Disease Is Managed. James G. Horsfall and Ellis B. Cowling, Eds. Academic Press, New York, 1977. xxii, 466 pp. \$29.

Progress in Drug Metabolism. Vol. 2. J. W. Bridges and L. F. Chasseaud, Eds. Wiley-Interscience, New York, 1977. x, 350 pp., illus. \$29.50.

Progress in Underwater Science. Vol. 2. Proceedings of a symposium, London, Mar. 1976. K. Hiscock and A. D. Baume, Eds. Pentech Press, London, and Crane, Russak, New York, 1977. viii, 134 pp., illus. \$18.

The Prostaglandins. Vol. 3. Peter W. Ramwell, Ed. Plenum, New York, 1977. xii, 360 pp., illus. \$39.50.

Radio Galaxies. Radiation Transfer, Dynamics, Stability and Evolution of a Synchrotron Plasmon. A. G. Pacholczyk. Pergamon, New York, 1977. xii, 294 pp., illus. \$25. International Series in Natural Philosophy, vol. 89. *To order this book circle No. 407 on Readers' Service Card*

Reagents for Organic Synthesis. Vol. 6. Mary Fieser and Louis F. Fieser. Wiley-Interscience, New York, 1977. x, 766 pp., illus. \$29.50.

Recent Advances in Medical and Veterinary Mycology. Proceedings of a congress, Tokyo, June 1975. Kazuo Iwata, Ed. University Park Press, Baltimore, 1977. x, 318 pp., illus. \$60.

The Rediscovery of the Pedestrian. 12 European Cities. Roberto Brambilla and Gianni Longo. Institute for Environmental Action, New York, and Columbia University Center for Advanced Research in Urban and Environmental Affairs, New York, 1976 (available from the Superintendent of Documents, Washington, D.C.). xii, 124 pp., illus. Paper, \$1.80. Footnotes Number Two. Stock No. 023-000-00374-4.

Regulatory Mechanisms in Lymphocyte Activation. Proceedings of a conference, Tucson, Ariz., Sept. 1976. David O. Lucas, Ed. Academic Press, New York, 1977. xxxvi, 826 pp., illus. \$37.

The Rotation Method in Crystallography. Data Collection from Macromolecular Crystals. U. W. Arndt and A. J. Wonacott, Eds. North-Holland, Amsterdam, 1977 (U.S. distributor, Elsevier, New York). xviii, 276 pp., illus. \$42.50.

Science, Technology and Society. A Cross-Disciplinary Perspective. Ina Spiegel-Rösing and Derek de Solla Price, Eds. Sage Publications, Beverly Hills, Calif., 1977. xii, 608 pp. \$29.95.

The Seeing Eye, the Seeing I. Perception, Sensory and Extra-Sensory. Renée Haynes.

St. Martin's, New York, 1977. 224 pp. \$8.95.

The Silent Bomb. A Guide to the Nuclear Energy Controversy. Peter Faulkner, Ed. Friends of the Earth International, San Francisco, and Random House, New York, 1977. xxiv, 384 pp., illus. Cloth, \$10.95; paper, \$3.95.

Treatment of Industrial Effluents. A. G. Calley, C. F. Forster, and D. A. Stafford, Eds. Halsted (Wiley), New York, 1977. xiv, 378 pp., illus. \$17.50.

Urn Models and Their Application. An Approach to Modern Discrete Probability Theory. Norman L. Johnson and Samuel Kotz. Wiley, New York, 1977. xiv, 402 pp. \$21.95. Wiley Series in Probability and Mathematical Statistics.

Using Computers. Brian Meek and Simon Fairthorne. Horwood, Chichester, England, and Halsted (Wiley), New York, 1977. 208 pp., illus. \$16.50. Mathematics and Its Applications.

Valence Instabilities and Related Narrow-Band Phenomena. Proceedings of a conference, Rochester, N.Y., Nov. 1976. R. D. Parks, Ed. Plenum, New York, 1977. xiv, 562 pp., illus. \$49.50.

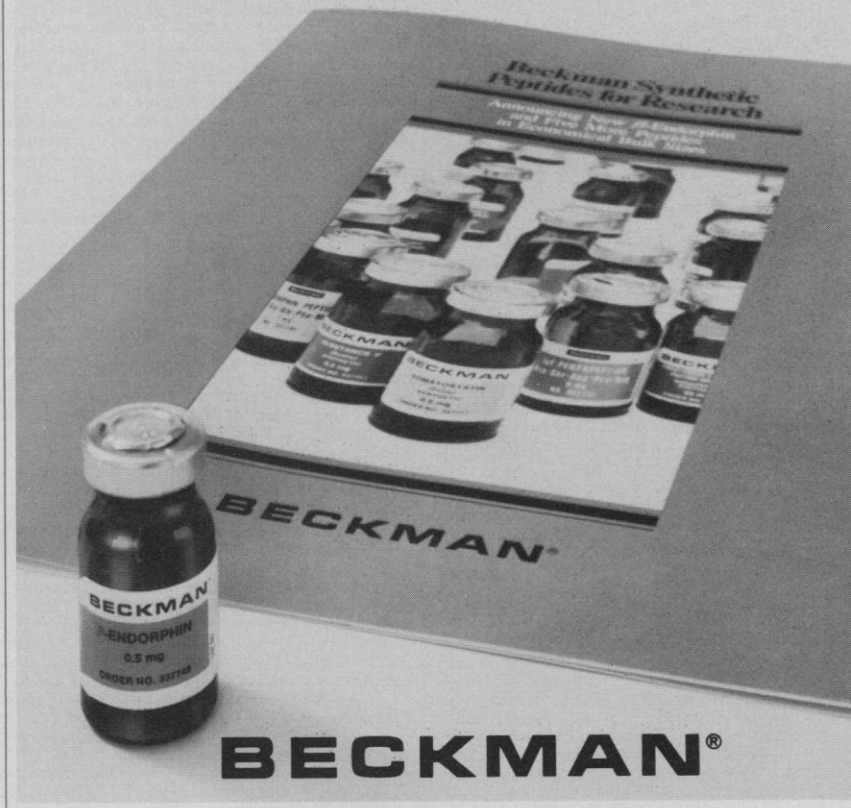
Virus-Insect Relationships. Kenneth M. Smith. Longman, New York, 1976. viii, 292 pp., illus. \$23.50. *To order this book circle No. 409 on Readers' Service Card*

Ways of Wildlife. Eleanor Horwitz, Ed. Citation Press/Scholastic, New York, 1977. xvi, 160 pp., illus. Paper, \$2.95.

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Biochemist/Mass Spectroscopist. Ph.D. London 1969. Seeks position in applied biomedical research. Experience in a wide variety of biochemical techniques. Available 1 January 1978. H. T. Cory, 311A Skaggs Hall, University of Utah, Salt Lake City, Utah 84112. Telephone: 801-581-5580. X

Clinical Biochemist—M.T., Ph.D., specialist in chemistry (ASCP); many years of experience in laboratory service, troubleshooting, development, and teaching. Seeks pathology laboratory position with management/teaching responsibilities. Will relocate. Box 426, SCIENCE. X

Clinical Microbiologist: D.V.M., Ph.D., SM-ASCP, SM-AAM. Board eligible; publications. Broad experience in all phases of microbiology. Desires hospital, medical school, or industrial position. Box 424, SCIENCE. X

Fish Geneticist. Ph.D. 1976. Experienced in fish culture, biochemical genetics; 2 years of postdoctoral training. Seeks research/teaching position. Interests in biochemical polymorphisms, comparative genetics, and regulation of gene expression in fishes. Box 425, SCIENCE. X

M.S., Ph.D.; extensive experience in National Park interpretation; experience in academia, industry, three federal agencies; publications; grants. Seeks position (creative, innovative) in interpretation in industry, parks, other. Box 420, SCIENCE. X

Reproductive Biologist, M.D. (1967), M.D. specialist reproduction (1971), 8 years' experience (top laboratories; ex-WHO consultant). Publications. Seeks faculty (80 percent research, 20 percent teaching) or industry position anywhere in United States. Interests: hormone action, physiology/pharmacology reproductive cycles, neuroendocrinology, and fertility control. Readily available. Dr. C. Iramain, Department of Biochemistry, University of Ibadan, Nigeria. X

POSITIONS OPEN

ANALYTICAL CHEMIST OR ENVIRONMENTAL SCIENTIST. Experience in trace organic analyses, wet and instrumental, specifically experience in capillary column gas chromatography of hydrocarbons and/or GC-MS. Within 1 week, send résumé and three letters of reference to: Dr. C. S. Giam, Chemistry Department, Texas A & M University, College Station, Texas 77843. Indicate salary.

ANATOMIST University of California, San Diego

Experienced teacher wanted. Senior lecturer position open to teach gross anatomy at the UCSD School of Medicine. Four-month appointment (September through December), \$1721 to \$2845 monthly depending on qualifications. Position requires intensive participation in functionally oriented gross course (17 hours per week for 11 weeks), including demonstrations, dissections, laboratory teaching, lecturing, and some tutoring. Annual reappointment. Please send curriculum vitae and names of three academic references to:

Nicholas A. Halasz, M.D.
Head, Division of Anatomy
Department of Surgery
University of California, San Diego
225 West Dickinson Street
San Diego, California 92103

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AQUATIC ECOLOGIST

ICHTHYOPLANKTON. M.S. degree, experience desirable. Successful applicant will be responsible for designing field studies, directing projects, sampling ichthyoplankton and macroplankton, data management, and report writing. Applicant must be interested in ecological problems with ichthyoplankton and doing original research. Send curriculum vitae and names of three references to: Dr. Robert J. Naiman, Academy of Natural Sciences of Philadelphia, Benedict Estuarine Research Laboratory, Benedict, Maryland 20612. *Equal Opportunity Employer.*

ASSISTANT PROFESSOR: tenure-track position in an academic setting. Candidates must be Board-certified in anatomic pathology or in both anatomic and clinical pathology. Prior experience in teaching at the undergraduate and intern/resident levels would be valuable. Demonstrated ability to develop an investigative program must be shown. Preference will be given to those candidates who show an expressed interest in cardiopulmonary pathology. The candidate must be qualified to obtain a Kentucky Medical Licensure. Excellent career opportunity. Submit a detailed curriculum vitae and salary requirement to: G. Randolph Schrodt, M.D., Professor and Chairman, Department of Pathology, University of Louisville School of Medicine, P.O. Box 35260, Health Sciences Center, Louisville, Kentucky 40232. *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR Department of Microbiology Johns Hopkins University School of Medicine

Applications are invited from candidates with a Ph.D. or M.D. degree plus postdoctoral research experience and interest in the biochemistry of cellular immunity. Candidates should be qualified to carry out independent research, including supervision of graduate students, and to teach in the school's medical and graduate programs. Applicants should send curriculum vitae, bibliography, and two letters of reference by 1 December 1977 to: Dr. Manfred M. Mayer, Department of Microbiology, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, Maryland 21205. *Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF BIOCHEMISTRY— State University of New York, Downstate Medical Center. The Department of Biochemistry has 17 graduate students, a faculty with diverse research interests, affiliation with a major medical center and facilities to permit unrestricted development by an imaginative and hardworking scientist. Applicants will be expected to participate in teaching of undergraduate, medical, and graduate students and to develop a vigorous research program. Submit curriculum vitae, names of three references, and a description of research plans to: Dr. R. D. Feinman, Search Committee, Department of Biochemistry, SUNY-Downstate Medical Center, Brooklyn, New York 11203. *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

Opening at the rank of **ASSISTANT PROFESSOR** beginning fall 1978 in the Department of Biological Sciences at Oakland University. The Department of Biological Sciences consists of 20 full-time faculty, most of whom are actively involved in biomedical research. The department presently offers bachelor's and master's degrees and participates in the teaching of Health Sciences Programs. The candidate should have a Ph.D. degree, about 2 years of postdoctoral experience, and a strong commitment to research. Duties include teaching for two semesters (8 months) with a large undergraduate medical microbiology and a small upper-level immunology course. The successful candidate is also expected to participate in the graduate program and develop an active research program in his/her chosen area. Apply with curriculum vitae, short description of future research goals, and names of three referees to: Dr. Arun K. Roy, Department of Biological Sciences, Oakland University, Rochester, Mich. 48063. *Oakland University is an Affirmative Action Employer and applications from members of minority groups are encouraged.*

Positions available: **ASSISTANT PROFESSORS OF ANATOMY**, beginning summer 1978. (i) **Neuroanatomist:** teaching responsibilities include neuroanatomy and gross anatomy. Research in neuroscience. Grant support desirable. (ii) **Cell biologist:** teaching responsibilities include histology and gross anatomy. Research in cell biology. Grant support desirable. Send curriculum vitae and names of three references to: Dr. Harry Maisel, Department of Anatomy, Wayne State University School of Medicine, Detroit, Michigan 48201. *An Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR—BIOLOGY: full time; permanent; to begin 21 August 1978. Ph.D. required. Teach a two-semester anatomy/physiology course plus, on rotating schedule, genetics, developmental, comparative anatomy, and general zoology; direct student research; participate in department activities; develop research program. Letter and résumé to: Dr. Joseph Kawatski, Chairman, Department of Biology, Viterbo College, La Crosse, Wis. 54601. *An Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF CALIFORNIA, BERKELEY. An anticipated opening (fall 1978) pending budgetary approval at the **assistant professor** level in **biological psychology**. Persons with research interests in neural plasticity (neural system development and behavior, or neural mechanisms of learning and memory) are especially encouraged to apply. Salary range: \$15,000 to \$16,600, depending on qualifications and experience. Please send by 1 February 1978, curriculum vitae material, for example, résumé, names of references, and research papers, to: Dr. Arnold L. Leiman, Chair of the Search Committee, Department of Psychology, University of California, Berkeley, Calif. 94720. *Equal Opportunity Employer. Minority and women candidates are urged to apply.*

VASSAR COLLEGE. The Department of Biology will make an appointment at the level of **assistant or associate professor in developmental and molecular biology** for September 1978. We seek an individual with experience and a strong commitment to the teaching of undergraduates. The candidate should present evidence of well-defined research interests and the ability to secure outside funding for support of a basic research program.

Please forward a letter of application and curriculum vitae to: Dr. Patricia Johnson, Chairman, Department of Biology, Vassar College, Poughkeepsie, N.Y. 12601 by 31 December 1977.

Vassar College is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT or ASSOCIATE PROFESSOR OF PATHOLOGY positions available in the Department of Pathology of The George Washington University Medical Center, Washington, D.C. Two full-time faculty positions are available for individuals with training and experience in academic pathology: (i) **clinical pathologist**, preferably with expertise in microbiology, and (ii) **experimental pathologist**. Candidates should be M.D.'s with Board-certification or eligibility. Teaching responsibilities involve medical students and residents. Inquiries, curriculum vitae, and bibliographies should be sent to: Dr. H. Sidransky, Chairman, Department of Pathology, The George Washington University Medical Center, 2300 Eye Street, NW, Washington, D.C. 20037. *An Equal Opportunity Employer.*

POSITIONS OPEN

CORNELL UNIVERSITY ASSISTANT PROFESSOR OF BOTANY

Applications are invited for a teaching position in botany, in the Section of Botany, Genetics and Development. Excellence in undergraduate teaching is a major consideration. The appointee will be expected to accept, as primary teaching role, responsibility for a large course at the elementary level, with emphasis on morphology, anatomy, development, reproduction, evolution, and plant identification. The appointee will also be expected to contribute to advanced undergraduate and graduate training in an area of research specialization and to undertake a vigorous research program.

Inquiries are invited from all applicants qualified for the primary teaching role. Applicants should have a Ph.D. degree in botany or a related area. *Women and minority candidates are encouraged to apply.* Curriculum vitae, transcripts, and three letters of recommendation should arrive by 15 January 1978 addressed to: **Dominick Paolillo, Search Committee Chairman, Section of Botany, Genetics and Development, 238 Plant Science Building, Cornell University, Ithaca, New York 14853.**

Cornell University is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMIST—At least 2 years of postdoctoral experience preferred; to work in a multidisciplinary group concerned with neural systems in marine forms. Particular emphasis on cellular mechanisms of learning and development. Broad background in biochemical techniques desired. Additional experience in electrophysiology and/or electron microscopy helpful. Send curriculum vitae, bibliography, and references to: **H. P. Smith, Marine Biological Laboratory, Woods Hole, Massachusetts 02543.**

An Equal Opportunity Employer

BIOCHEMIST/CLINICAL CHEMIST. Tenure-track position. \$15,624 to \$21,624. Fall 1978. Ph.D. required. Prefer background in biochemistry with experience in medical/hospital laboratory and teaching. Teaching duties: clinical, general, and biochemistry. Deadline: 2 January 1978. Send résumé and four letters supplied by references to: **Dr. William Rife, Head, Chemistry Department, California Polytechnic State University, San Luis Obispo, California 93407.** Affirmative Action/Equal Opportunity/Title IX Employer.

BIOCHEMISTRY FACULTY POSITION. Assistant professor, University of Arizona, to teach medical, graduate, and undergraduate students. Research area open, but applicants should have demonstrated capacity for excellence in both teaching and research. Applicants should send curriculum vitae, bibliography, a two- to three-page statement of research plans, and names of at least three references to: **Dr. H. E. Carter, Department of Biochemistry, University of Arizona, Arizona Health Sciences Center, Tucson, Arizona 85724.** An Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.

BIOCHEMIST. Applications are invited by the American Red Cross Blood Research Laboratory, Bethesda, Md., for a Ph.D. biochemist with a strong background in plasma fractionation and 5 plus years of experience in blood coagulation to work on research and development of plasma derivatives for clinical use. Forward curriculum vitae to: **S. C. Behrens, Office of Personnel, American Red Cross, 18th and E Streets, NW, Washington, D.C. 20006.** Equal Opportunity Employer.

Phillips University is seeking a **BIOLOGIST** for a tenure-track position beginning January 1978. Teaching will include comparative anatomy, embryology, and other courses in the field of specialization. Opportunity also available to teach in the University's Colorado Science Camp. Ph.D. preferred. Send application material to: **Dr. Beth Murphy, Phillips University, Enid, Oklahoma 73701.** An Equal Opportunity Employer.

CELL BIOLOGIST. Tenure-track position, assistant professor level, starting September 1978. Teaching duties: undergraduate course in cell biology and graduate course and seminar in candidate's specialty. Expected to develop independent research program and supervise graduate students. Send curriculum vitae, reprints, brief statement of research interests, and names of at least three referees to: **Dr. Peter Abramoff, Biology Department, Marquette University, Milwaukee, Wis. 53233.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

BIOLOGIST OR BIOENGINEER position open at the instructor or assistant professor level for research work on bone metabolism. Experience in bone desirable but not essential. Competitive salary. *Female and minority candidates are encouraged to apply.* Send application to: **Dr. D. Baylink, VA Hospital, American Lake, Tacoma, Wash. 98493.**

BIOSTRATIGRAPHER/ MICROPALAEONTOLOGIST

University of British Columbia, Department of Geological Sciences. Applications are invited for a temporary lecturer. Duties include undergraduate teaching in general geology and biostratigraphy and a graduate course in micropaleontology. Term: 1 year beginning 1 January 1978; renewable for a second year subject to satisfactory performance and budgetary considerations. Qualifications: Ph.D. required. Salary: negotiable. Applications should include a curriculum vitae and the names of three references. *The University of British Columbia offers Equal Opportunity for employment to qualified male and female candidates.*

Applications should be sent to: **Dr. J. V. Ross, Department of Geological Sciences, The University of British Columbia, Vancouver, B.C., Canada V6T 1W5.**

CELL AND MOLECULAR BIOLOGY

An assistant professor-level opening is anticipated on or about 1 February 1978 in the Cell Biology Group at the Worcester Foundation for Experimental Biology. We seek individuals having at least 2 years of postdoctoral experience with a leading laboratory in their field. While we are more interested in excellence than a specific research area, preference may be given to individuals with training and current interests in: (i) genome organization and transcription in animal cells and viruses, (ii) tumor virology, or (iii) molecular biology of the cell surface. Applications should be addressed to: **Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Mass. 01545.**

The Worcester Foundation for Experimental Biology is an Affirmative Action/Equal Opportunity Employer.

CELL AND MOLECULAR BIOLOGIST

The Division of Biology has a tenure-earning position available at the assistant or associate professor level. Applications are sought from those with an active research interest in the regulation of transcriptional or translational events in eukaryotic cells. The successful applicant will be expected to establish a vigorous and creative research program and to participate in graduate or undergraduate teaching. Appointments will be effective 1 September 1978. Applicants should submit curriculum vitae, three letters of reference, and a brief description of future research plans by 15 January 1978 to:

**Dr. Terry Johnson, Director
Division of Biology
Kansas State University
Manhattan, Kansas 66506**

Kansas State University is an Equal Opportunity/Affirmative Action Employer.

MEMBRANE BIOLOGIST

The Division of Biology has a tenure-earning position available at the assistant or associate professor level. Applications are sought from those with an active research interest in the broadly defined area of eukaryotic cell membranes. Some representative areas may include membrane structure and function, surface membrane alterations in transformed cells, and changes occurring during developmental processes. The successful applicant will be expected to establish a vigorous and creative research program and to participate in graduate or undergraduate teaching. Appointments will be effective 1 September 1978. Applicants should submit curriculum vitae, three letters of reference, and a brief description of future research plans by 15 January 1978 to:

**Dr. Terry Johnson, Director
Division of Biology
Kansas State University
Manhattan, Kansas 66506**

Kansas State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

Burlington County College, a comprehensive community college, announces the following vacancy:

CHAIRPERSON Division of Science, Mathematics & Technology

(Salary range: \$19,304 to \$27,026)

Position must be filled by 1 July 1978 at the latest. To obtain further information and an application, please write: **the Personnel Department, BURLINGTON COUNTY COLLEGE, Pemberton, N.J. 08068.** Completed applications must be received by the Personnel Department no later than 15 December 1977, in order to receive consideration. *Equal Opportunity/Affirmative Action Employer, M/F.*

CHAIRPERSON, DEPARTMENT OF BIOLOGY ALABAMA A & M UNIVERSITY, HUNTSVILLE

Applicants should hold a Ph.D. in one of the biological science areas; possess appropriate teaching and research experience and be interested in working in a young, viable department which offers the B.S. and M.S. and has ongoing funded research programs. Administrative experience desirable. Positional responsibilities to commence no later than 1 September 1978. Send résumé, transcript, and three letters of recommendation by 1 February 1978 to: **Dr. G. C. Sharma, Chairman, Biology Search Committee, P.O. Box 183, Alabama A & M University, Normal, Alabama 35762.**

An Affirmative Action/Equal Opportunity Employer

CHEMIST-BIOCHEMIST POSTDOCTORAL RESEARCH ASSOCIATE

A 2- or 3-year postdoctoral position is available for synthesizing protease inhibitors or characterizing the interaction of natural and synthetic inhibitors with proteases. See *Trends Biochem. Sci.* 1, 211 (1976) for examples of similar work. Starting salary: \$10,000 to \$11,500, depending upon experience. *An Equal Opportunity/Affirmative Action Employer.* To apply, send curriculum vitae and names of three references to:

**Dr. James C. Powers
School of Chemistry
Georgia Institute of Technology
Atlanta, Georgia 30332**

CHEMISTRY/PHYSICAL SCIENCE TEACHER: minimum M.S.; 2 years teaching experience preferred; wanted to teach introductory chemistry, biochemistry, and/or physical science at 2-year institution. Send résumé, three letters of recommendation, and official transcripts to: **Thomas Brown, Clark County Community College, 3200 East Cheyenne, North Las Vegas, Nevada 89030.** Deadline for completed applications: 1 January 1978. Hiring date: 15 January 1978.

CLINICAL CHEMIST

The Chemical Industry Institute of Toxicology (CIIT) seeks a clinical chemist to develop and operate a clinical chemistry laboratory and participate in research and development. Prefer MT (ASCP) background with M.S. in clinical chemistry and experience with the clinical chemistry of laboratory animals. Background in research and methods development helpful. Qualified applicants may submit their résumé in complete confidence to:

**Dr. Donald A. Hart
Administrative Manager
CIIT**

**P.O. Box 12137
Research Triangle Park, N.C. 27709**

We are committed to Equal Employment Opportunities, M/F.

DEAN, SCHOOL OF NATURAL SCIENCES California State University, Long Beach

Qualifications: should ordinarily possess an earned doctorate. Candidate must have teaching and administrative experience and a strong record of accomplishment in research. Appointment: 1 July 1978. Application deadline: 13 January 1978. Salary range: \$29,748 to \$35,976.

Letters of application, résumés, or requests for more information to: **Search Committee, Natural Sciences, Office of the Vice President for Academic Affairs, California State University, 1250 Bellflower Boulevard, Long Beach, Calif. 90840.**

An Equal Opportunity/Affirmative Action/Title IX Employer.

POSITIONS OPEN

CLINICAL PHARMACOLOGIST UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER

The Departments of Pharmacology and Medicine of the University of Illinois College of Medicine are in the process of forming a Section of Clinical Pharmacology. A director of this unit is being sought. The candidate must have an M.D. degree and experience in clinical pharmacology. The appointee will be expected to develop the activities of the section including teaching programs and a self-supporting research program. Basic science research facilities are offered by the Department of Pharmacology, and clinical facilities, by the Department of Medicine.

Interested individuals should submit a curriculum vitae and the names of three references to: **Dr. E. W. Maynert, Chairman, Search Committee, Department of Pharmacology, University of Illinois College of Medicine, P.O. Box 6998, Chicago, Illinois 60680.**

Equal Opportunity/Affirmative Action Employer.

CYTOGENETIC TECHNICIAN

Immediate opening for a skilled cytogenetics technician to join four others in analyzing over 1000 aminos and 500 bloods each year. Experience with G-, C-, R-, and Q-banding required, as is ability in analysis in the microscope. Send résumé and names of three references to:

Dr. William D. Loughman
Director, Cytogenetics Laboratory, AC-28
University of California, San Francisco
San Francisco, California 94143

DIRECTOR, DRUG STANDARDS DIVISION UNITED STATES PHARMACOPEIA

Write to:

Search Committee
The United States Pharmacopoeial Convention, Inc.
12601 Twinbrook Parkway
Rockville, Md. 20852

Equal Opportunity Employer, M/F

The Department of Biological Sciences of Carnegie-Mellon University has the following positions available: **EUKARYOTIC GENETICIST; MOLECULAR BIOLOGIST** applying restriction endonuclease technology in the area of structural studies of nucleic acids, genetic analyses, or recombinant DNA techniques. Candidates should have a Ph.D. (or equivalent) and preferably postdoctoral experience. Positions are at the **assistant professor** level, although higher appointments will be considered. Duties include teaching at the undergraduate and graduate level. Applicants should forward their curriculum vitae, three or more letters of reference, and a brief résumé of research plans to: **Search Committee (1), Department of Biological Sciences, Carnegie-Mellon University, 4400 Fifth Avenue, Pittsburgh, Pa. 15213.** *Carnegie-Mellon University is an Equal Opportunity/Affirmative Action Employee.*

The Instituto de Química, Universidad Central de Venezuela, is seeking a **FACULTY MEMBER** in the area of low temperature geochemistry. Ph.D. required. Salary range: \$15,000 to \$21,000 per year, depending on qualifications.

The Instituto de Química is devoted to research and teaching in the field of geochemistry. Send inquiries to:

Dr. Carlos López Eyzaguirre
Instituto de Química
Facultad de Ciencias
Universidad Central de Venezuela
Apartado 3895
Caracas-Venezuela

FACULTY POSITION

ANATOMY-PHYSIOLOGY—Ph.D. required to teach human anatomy and physiology and comparative vertebrate anatomy. Desire candidate with research interests in areas such as vertebrate physiology, pathophysiology, and vertebrate paleontology. Nine-month appointment in the Department of Biology beginning 16 August 1978. Salary and rank dependent upon qualifications and experience. Participation in graduate student supervision is encouraged. Deadline for applications is 1 February 1978. Submit application, curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Donald W. Bailey, Department of Biology, Western Kentucky University, Bowling Green, Kentucky 42101.** *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITIONS

The Department of Biology at the College of the Holy Cross invites applications for two anticipated tenure-track positions beginning fall 1978. Rank and salary are open and depend upon qualifications and experience. Postdoctoral experience is preferred.

1) **AQUATIC ECOLOGY**: this position involves teaching aquatic ecology, invertebrate zoology, and biology for nonmajors and participating in an interdisciplinary sequence of courses on ecology, economics, and human values.

2) **GENERAL PHYSIOLOGY-COMPARATIVE ANATOMY**: this position involves teaching introductory biology to majors, general physiology, comparative anatomy, and biology to nonmajors.

Applicants should send by 16 January 1978 a curriculum vitae, undergraduate and graduate transcripts, reprints of recent publications, a statement of research interests, and have letters from three referees sent directly to: **Dr. William R. Healy, Department of Biology, College of the Holy Cross, Worcester, Massachusetts 01610.** *The College of the Holy Cross is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION: BACTERIOLOGIST

The appointee will assume the teaching responsibility for an 8-week course in pathogenic bacteriology (lecture and laboratory) offered to undergraduate students; assist in the teaching of pathogenic bacteriology, mycology, and protozoology to veterinary students; and assist in the development and teaching of a graduate level course in pathogenic bacteriology. The appointee will be expected to develop a strong research program dealing with pathogenesis of bacterial diseases.

Applicants should hold a D.V.M., M.D., D.D.S., and/or Ph.D. degree with relevant teaching and research experience. Salary and rank dependent upon background and experience.

Applicants should send curriculum vitae, personal bibliography, and references to: **Dr. J. H. Gillespie, Chairman, Department of Veterinary Microbiology, New York State College of Veterinary Medicine, Cornell University, Ithaca, N.Y. 14853.** *Affirmative Action/Equal Opportunity Employer.*

The Department of Biological Sciences, Oakland University, invites applications for a **FACULTY POSITION** at the rank of assistant professor. The department offers B.A., B.S., and M.S. degrees and participates in health science programs. Applicants should be qualified to teach a large class in general biology emphasizing cell structure, metabolism, and genetics and an upper-level course in evolution and contribute to the team coordination of introductory biology laboratory. Applicants must exhibit a strong interest in maintaining a research program in mycology, plant evolution, or plant ecology. Preference will be given to candidates with teaching experience, records of research accomplishment, and postdoctoral training. The appointment would become effective in the fall 1978. Send curriculum vitae, statement of research and teaching interests, and names of three references by 1 December 1977, to: **Dr. Egbert W. Henry, Chairman, Search Committee, Department of Biological Sciences, Oakland University, Rochester, Mich. 48063.** *An Equal Opportunity/Affirmative Action Employer.*

DEPARTMENT HEAD

The Department of Biology, University of Minnesota at Duluth, invites applications and nominations for the position of department head effective September 1978. Candidates must hold the Ph.D. and must be eligible for appointment at the associate or full professor level with tenure. Applicants should have a commitment to undergraduate and graduate teaching, administrative experience, and a demonstrated record of research and professional activity preferably in the area of ecology. Exceptionally well-qualified individuals with interests in other areas of biology will also be considered. The department offers the B.A., B.S., and M.S. degrees and has 14 full-time faculty, 500 undergraduate, and 25 graduate students. Applicants should submit a résumé, including teaching, research, and administrative experience, a short statement of professional goals, and three letters of recommendation by 1 February 1978 to: **Dr. Stephen C. Hedman, Chairman, Biology Head Search Committee, Department of Biology, University of Minnesota, Duluth, Duluth, Minnesota 55812.** *The University of Minnesota is an Equal Opportunity Educator and Employer.*

POSITIONS OPEN

FACULTY POSITION. Full-time research position on Faculty of Medicine and Biochemistry, Boston University Medical School. The position is open to M.D. or Ph.D.'s interested in basic research in health-related areas, especially structure and function of membranes and serum lipoproteins and pathophysiology of atherosclerosis and other diseases involving lipid or lipoprotein metabolism. For M.D.'s interested in continuing some clinical research and patient care, hospital appointments are available. Please contact: **D. M. Small, M.D., Department of Medicine, Boston University Medical Center, Boston, Mass. 02118,** or telephone 617-247-5038.

Equal Opportunity/Affirmative Action Employer

FACULTY POSITIONS IN FISHERIES AND WILDLIFE. Due to pending retirements, there will be two positions available after 1 July 1978. Specialties should be: (i) **freshwater fishery dynamics** with strength in statistics, population modeling, and other quantitative research approaches and (ii) **wildlife ecology and management** with expertise in environmental decision-making and planning and familiarity with mathematical modeling. Ph.D. required; some postdoctoral experience preferred. Appointment as tenure-track assistant professor level with possibility of nontenured associate professor level. Approximately half-time research and half-time teaching of both undergraduates and graduates; competitive salary; 12-month appointment with 1-month vacation. Deadline for application: 31 January 1978. Submit résumé, transcripts, and three letters of recommendation to: **Dr. Milton W. Weller, University of Minnesota, Department of Entomology, Fisheries, and Wildlife, 219 Hodson Hall, 1980 Folwell Avenue, St. Paul, Minn. 55108.** *The University of Minnesota is an Equal Opportunity Educator and Employer.*

HEAD OF PHARMACOLOGY, University of Connecticut Health Center. The Search Committee invites applications and nominations for the position of professor and head of pharmacology in a developing health sciences center. Qualifications for this position include an established reputation in the pharmacologic sciences, a research background of demonstrated excellence, and strong teaching and administrative ability. Applications, nominations, and inquiries should be sent to: **Dr. Marvin L. Tancer, Search Committee Chairman, Department of Biochemistry, University of Connecticut Health Center, Farmington, Conn. 06032.**

An Equal Opportunity Employer, M/F

HYDROGEOLOGIST, Water Resources Center. Application deadline extended to 5 December 1977. Position advertised 23 September 1977. For information contact: **Twyla Harrison, Desert Research Institute, University of Nevada System, P.O. Box 60220, Reno, Nevada 89506.** Telephone: 702-673-4750. *An Affirmative Action/Equal Opportunity Employer.*

The Northwest Ohio Regional Red Cross Blood Center is seeking an **IMMUNOLOGIST** as **SCIENTIFIC DIRECTOR.** The Blood Center is affiliated with the Toledo Academy of Medicine and The Medical College of Ohio at Toledo. Candidates should be an M.D. or Ph.D., both experienced in tissue typing. Interest and skill in teaching and research. Compensation competitive. Send inquiry with curriculum vitae to: **American Red Cross, 2275 Collingwood Boulevard, Toledo, Ohio 43620.** *An Equal Opportunity/Affirmative Action Employer.*

MOLECULAR BIOLOGIST/BIOCHEMIST NEW YORK UNIVERSITY

The Department of Biology wishes to appoint a tenure-track assistant professor starting September 1978. Postdoctoral experience, research interests in molecular genetics and enzymology, and potential to develop an independent research program are required. Candidate's lecturing duties include participation in team-taught, interdepartmental biochemistry program, with emphasis on nucleic acid enzymology and metabolic regulation. Qualified applicants should submit résumé and three letters of recommendation to: **Dr. P. S. Coleman, Laboratory of Biochemistry, Department of Biology, New York University, New York, N.Y. 10003.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

IMMUNOPATHOLOGIST. Full-time position. The Dartmouth-Hitchcock Medical Center invites inquiries from Board-qualified or certified pathologists who are actively interested in the area of immunopathology and who, preferably, have had both postgraduate training and some experience in this field. Additional postgraduate training in internal medicine desirable. Position involves participation in teaching medical students and residents, clinical service activities, and an active interest in immunopathological research. Direct inquiries (including curriculum vitae) to: **George D. Sorenson, M.D., Chairman, Department of Pathology, Dartmouth Medical School, Hanover, N.H. 03755.**

Equal Opportunity/Affirmative Action Employer

REED COLLEGE September 1978

A **JUNIOR FACULTY POSITION** will be open for a recent Ph.D. in **animal population biology/ecology** with emphasis on field studies and mathematical modeling. The successful candidate will teach a one-semester course and participate in an introductory biology course during the other semester. Maintenance of an active research program is required.

Résumés and three letters of reference should be sent to: **Dr. Laurens N. Ruben, Department of Biology, Reed College, Portland, Oregon 97202.** Closing date for application is 17 February 1978. *Reed College is an Equal Opportunity Employer.*

MEDICAL ONCOLOGIST (junior). An appointment as assistant professor is available to a laboratory investigator/clinician to join a major academic program. Candidate should have independent investigative capability and be Board-qualified in medical oncology. *Stanford is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them.* Send résumé, which will be treated confidentially, to: **Dr. Saul A. Rosenberg, Chief, Division of Oncology, Stanford University, School of Medicine, Stanford, Calif. 94305.**

MICROBIOLOGIST

Permanent faculty position starting spring or fall semester 1978 as assistant professor, \$14,000 per year. Ph.D. with strong background in microbiology and cognate sciences. Teach undergraduate courses in soil microbiology and medical mycology, a graduate course in either area, and develop a significant research program in soil microbiology. Send résumé, academic transcripts, and three letters of recommendation to: **Dr. E. A. Grula, School of Biological Sciences, Oklahoma State University, Stillwater, Oklahoma 74074.** *An Equal Opportunity/Affirmative Action Employer.*

MYCOLOGIST. Assistant curator—assistant professor in the Herbarium and Division of Biological Sciences, **UNIVERSITY OF MICHIGAN**, beginning 1 July 1978. Ph.D. required. Research in fungal systematics, responsibility for curatorial operations in the mycological herbarium, and teaching one course per year (alternating between mycology and introductory biology). Applications, to be submitted by 1 January 1978, should include a curriculum vitae, transcripts, statements of research plans and of curatorial and teaching experience, three letters of recommendation, and reprints. **Dr. Robert L. Shaffer, Director, University of Michigan Herbarium, Ann Arbor, Mich. 48109.** *A nondiscriminatory, Affirmative Action Employer.*

NONVASCULAR BOTANIST OR VERTEBRATE ECOLOGIST

Applications are invited for a tenure-track assistant professorship in the Department of Biology at the University of Minnesota at Duluth effective September 1978. Applicants must have a Ph.D. degree with expertise in either nonvascular botany or vertebrate ecology, a commitment to undergraduate and graduate instruction, and the ability to develop an independent research program. Applicants should forward a curriculum vitae, undergraduate and graduate transcripts, three letters of recommendation, and a short statement on research interests, teaching capabilities, and professional goals by 1 February 1978 to: **Dr. Conrad E. Firling, Chairman, Faculty Search Committee, Department of Biology, University of Minnesota, Duluth, Duluth, Minnesota 55812.** *The University of Minnesota is an Equal Opportunity Educator and Employer.*

POSITIONS OPEN

NEUROBIOLOGIST, M.D. or Ph.D., or equivalent. Salary and rank to associate professor; level depends on qualifications and experience. Preference will be given individuals with independent research in multidisciplinary neuroscience. The candidate should be able to teach in medical and graduate programs in an integrated neurosciences curriculum. Areas within the program include neuroanatomy, neurophysiology, neurochemistry, and neuropharmacology. The department also teaches gross and developmental anatomy. Send applications and curriculum vitae plus three references to: **Search Committee, Department of Neurobiology and Anatomy, The University of Texas Medical School at Houston, P.O. Box 20708, Houston, Texas 77030.** Applications will be accepted until 15 December 1977. *An Equal Opportunity/Affirmative Action Employer.*

NEUROPHYSIOLOGIST

Assistant-associate professor according to qualifications. Begins September 1978. Ph.D. or M.D. degree and 3 years of postdoctoral experience required. Must have established research program. Teaching experience in CNS structure/function at graduate and medical level required. Preference to research in special sense (visual particularly). Résumé with references to: **Box NS, Physiology 206H, University of North Carolina, Chapel Hill, N.C. 27514.** (Only responses directed to Box NS will be considered.) *An Equal Opportunity/Affirmative Action Employer.*

NEUROSCIENTIST

Opening for established **neurophysiologist** at associate professor or professor level. The appointee will be expected to teach neuroanatomy and neurophysiology and play a role in the development of a broad-based course in neurobiology. It is expected that the appointee will have well-established credentials as an investigator, including current grant support. Well-equipped electrophysiological laboratory available. Send curriculum vitae and names of three references to: **Dr. Harry Maisel, Department of Anatomy, Wayne State University School of Medicine, Detroit, Michigan 48201.** *An Affirmative Action/Equal Opportunity Employer.*

The Department of Pathology of The State University of New York at Stony Brook is seeking Board-certified **PATHOLOGISTS** with training and/or experience in surgical pathology, pediatric pathology, and gynecologic pathology to assume responsibilities in the respective service areas in the University Hospital; to participate in educational activities for medical students, residents, practicing physicians, and other health professionals in training and in practice; and to conduct research programs. Contact: **Bernard Lane, M.D., Faculty Search Committee, Department of Pathology, Health Sciences Center, SUNY at Stony Brook, Stony Brook, New York 11794.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOW/ RESEARCH AFFILIATE

Immediate; for a Ph.D. in biochemistry or biochemical pharmacology to participate in a project concerning interrelationships between mitochondrial functions, mtDNA, and cell proliferation. Background in cell culture, tumor-cell fractionation, mtDNA isolation/characterization, and DNA damage and repair is desirable. Salary commensurate with NIH scales. Send résumé, a statement of research interest, and two letters of reference to: **Dr. C. Dave, Grace Cancer Drug Center, Roswell Park Memorial Institute, Buffalo, New York 14263.**

NIH POSTDOCTORAL POSITION available immediately in natural products/toxicology. Ph.D. with protein chemistry background to work with group studying chemical/toxicological behavior of marine algal toxins. Salary \$15,000, 12-month base, subject to renewal. Send résumé and dissertation advisor letter to: **Dr. J. Pinion, Natural Science Department, University of Maryland Eastern Shore, Princess Anne, Md. 21853.** *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION available in the Departments of Biochemistry and Microbiology for the study of changes that occur in fibroblast membranes upon infection and transformation by herpes simplex virus. Background in virology, cell culture, membrane isolation, or lipid biochemistry desirable. Available immediately. Send résumé and three letters of reference to: **Dr. Moseley Waite, Department of Biochemistry, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, N.C. 27103.**

The Department of Zoology at Clemson University has three **FACULTY POSITIONS** beginning 15 August 1978. The Ph.D. degree is required and postdoctoral experience is preferred. Rank and salary are open and will be commensurate with the experience of each appointee. Teaching will include undergraduate and graduate courses in the individual's area of expertise. A vigorous ongoing research program supporting M.S. and Ph.D. training will be expected. The department currently has 16 faculty and 42 graduate and more than 200 undergraduate majors and is supported by a staff of eight. A new laboratory building for the biological sciences was completed in 1977. Clemson University is a land-grant institution with 11,000 students.

POPULATION ECOLOGIST—research interests should complement current strengths in general, aquatic, physiological, and behavioral ecology; limnology; and ecological genetics.

INVERTEBRATE ZOOLOGY—research emphasis should supplement current expertise in the broad areas of ecology, behavior, evolutionary biology, organismal biology, and physiology.

GENERAL/SYSTEMATIC PHYSIOLOGY—research areas should complement current strengths in cell and developmental biology and comparative, ecological, and invertebrate physiology.

Applicants should send curriculum vitae, transcripts, three letters of recommendation, and reprints to: **Carl W. Helms, Head, Department of Zoology, Clemson University, Clemson, S.C. 29631** by 16 January 1978. *Clemson University is an Equal Opportunity/Affirmative Action Employer.*

THE UNIVERSITY OF TEXAS AT DALLAS

Applications are invited for **FACULTY POSITIONS** in applied geophysics and classic sedimentology. One of these positions may be filled at the assistant level and one at the associate level. The positions require a Ph.D. and documented ability to do original research. Candidates are expected to initiate and develop graduate-oriented research programs in their specialty. Preference will be given to scientists with broad interests. Teaching duties will involve both graduate and undergraduate instruction and supervision of M.S. and Ph.D. students.

GEOPHYSICIST. Research interest in applied geophysics, with strong interest and orientation toward energy-related research. Preference will be given to a geophysicist with a strong geological background.

CLASTIC SEDIMENTOLOGIST. Research interest in terrigenous sediments (both modern and ancient) with a secondary proficiency in either hydrocarbon occurrences or groundwater hydrology. Must be able to teach courses in modern clastic deposition, environmental analysis (modern and ancient), and sedimentary petrography.

Indication of ethnicity and sex for Affirmative Action statistical purposes is requested but not required. Send curriculum vitae by 1 February 1978 to:

**Dr. Alexander Clark
Vice President for Academic Affairs
The University of Texas at Dallas
P.O. Box 688
Richardson, Texas 75080**

The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

PHARMACEUTICAL RESEARCH OPPORTUNITIES

The Squibb Institute for Medical Research, located at our modern laboratory facility on a campus-like setting in Princeton, New Jersey, has immediate openings for the following:

- **Biochemist:** B.S./M.S. degree, plus 3 to 5 years of experience in natural product chemistry.
- **Pharmacologist:** B.S./M.S. degree, plus 1 to 3 years of experience in isolated tissues.
- **Section Head—Pharmaceutical Technology:** pharmacy degree plus several years of industrial experience in technical support to tablet-capsule manufacturing.
- **Section Head—Biological Process Development:** Ph.D. degree in biochemical engineering, plus 5 years of experience in productive fermentation process development.

Salary will be commensurate with experience and we offer a liberal benefits package. Please send curriculum vitae, in confidence, to:

E. R. Squibb & Sons, Inc.
Recruitment and
Selection Manager
P.O. Box 4000
Department RD
Princeton, New Jersey 08540

An Equal Opportunity Employer, M/F

A modern, well-equipped department seeks a **Ph.D.** with postdoctoral research experience. The appointment will be at the assistant professor level effective fall 1978. Applicants should have a strong background in genetics and will be expected to offer courses in embryology and genetics and participate in the master's program. Candidates must exhibit a strong interest in maintaining a vigorous research program. Send a curriculum vitae, reprints, statement of research and teaching interests, and names of three references by 1 December 1977 to: **Dr. F. M. Butterworth, Department of Biological Sciences, Oakland University, Rochester, Mich. 48063.** *An Equal Opportunity/Affirmative Action Employer.*

PHOTOSYNTHESIS RESEARCH POSITIONS

The U.S. Department of Agriculture, ARS, is seeking **three scientists** to join an interdisciplinary photosynthesis research program at Urbana, Illinois. The general objective of this program is to identify and investigate rate limiting steps in the photosynthetic process. Individuals experienced in conducting biophysical, biochemical, or physiological analyses of photosynthesis in chloroplast, cellular, or whole plant systems will be considered. These positions carry appointments in academic departments of the University of Illinois. Applications from candidates at all levels of research experience are invited. Individuals must hold a Ph.D.; additional training is desirable. Applicants should submit, before 31 January 1978, a curriculum vitae, the names of three references, and a brief statement of research interests and objectives to either **W. L. Ogren** or **C. J. Arntzen, S-212 Turner Hall, University of Illinois, Urbana, Illinois 61801.** *The USDA and the University of Illinois are Equal Opportunity Employers.*

POSTDOCTORAL POSITION is available immediately for up to 3 years for studies on control enzymes of gluconeogenesis in diabetic mice. Adequate background in either enzymology or protein chemistry is desirable. Send curriculum vitae and names of two references to: **Frank Marcus, Department of Biochemistry, University of Health Sciences/The Chicago Medical School, 2020 West Ogden Avenue, Chicago, Illinois 60612.**

An Affirmative Action/Equal Opportunity Employer

PRE- AND POSTDOCTORAL OPENINGS in experimental parasitology (immunologic, physiologic, and biochemical aspects of protozoal, helminth, and arthropod parasites) available July 1978. Support from NIH Training and Research Grants with stipends according to NIH guidelines for trainees. Candidates should write as soon as possible to: **Dr. B. M. Honigberg, Department of Zoology, University of Massachusetts, Amherst, Mass. 01003,** stating their research interests. *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

DEPARTMENT OF BOTANY UNIVERSITY OF WISCONSIN, MADISON

Applications are invited for **two faculty positions** beginning possibly fall 1978. Rank and salary are open and will be commensurate with credentials.

PLANT PHYSIOLOGIST—We are interested in candidates with exceptional accomplishments or promise in the area of growth and development.

PLANT ECOLOGIST—We are seeking broadly trained candidates with interests in the field of population ecology or general autecology.

Candidates should submit a curriculum vitae and appropriate supporting materials, and three letters of reference, all to be sent to: **Dr. Eldon H. Newcomb, Physiology Search Committee, or Dr. Michael S. Adams, Ecology Search Committee, Department of Botany, University of Wisconsin, Madison, Wis. 53706.** Closing date is 15 January 1978. *The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available 1 January 1978 for studies on organic geochemistry of sulfur or metals incorporation in peat/coal formation. Experience with GC and GC/MS essential; experience with radioisotopes desirable. Salary \$14,000 per year: 1½ years' duration, minimum. Send résumé and references to: **Dr. Daniel J. Casagrande, College of Environmental and Applied Sciences, Governors State University (GSU), Park Forest South, Ill. 60466.** GSU, founded in 1971, is a competency-based, commuter institution with an enrollment of 4000, granting both baccalaureate and master's degrees. This upper-division university is located in a suburb 30 miles south of Chicago. Deadline for application is 31 December 1977. *GSU is an Affirmative Action/Equal Opportunity Employer.*

THE FLINDERS UNIVERSITY OF SOUTH AUSTRALIA SCHOOL OF PHYSICAL SCIENCES POSTDOCTORAL RESEARCH FELLOW (Bioinorganic chemist)

The successful applicant will investigate the bioinorganic chemistry of dental enamel under a grant from Colgate Palmolive Pty. Ltd. Candidates are expected to have had experience in the analytical applications of proton activation analysis which will be applied in the investigation of structural aspects and transport phenomena of fluorine in apatite and dental enamel. Experience in solid state diffusion and/or electron optical techniques will be of advantage. It is hoped that the appointee will commence duties in January 1978, and the appointment will be for 2 years. Assistance with transport of personal belongings and travel will be negotiated.

Prospective applicants are invited to contact **Associate Professor H. J. de Bruin** if they require more detailed information about the project.

Salary scale: A\$12,593 to A\$19,262.

Applications including a full curriculum vitae with full details of educational qualifications, previous experience and appointments, and the names and addresses of three referees from whom confidential enquiries may be made, should be lodged, *in duplicate*, with: **The Registrar, The Flinders University of South Australia, Bedford Park, S.A., 5042,** not later than 12 December 1977.

DEPARTMENT OF MICROBIOLOGY

Postdoctoral research position available immediately to work on the interaction between host cell and on-cogenic virus genomes. Ph.D. with background in nucleic acids. Experience with restriction enzymes and/or nucleic acid hybridizations, in situ hybridization is desirable. Send curriculum vitae and references to: **Dr. Ramareddy V. Guntaka, Department of Microbiology, 1506 Health Sciences Center, 701 West 168 Street, New York, New York 10032.**

RESEARCH ASSOCIATE

Position available for research in clinical biochemical pharmacology group in cancer institute. Applicants should have a Ph.D. in pharmacology or biochemistry. Preference will be given to applicants with postdoctoral experience and strong background in methodology for analyzing drugs and their metabolites in tissues. Experience in high pressure liquid chromatography helpful. Please send résumé to: **Dr. Youcef M. Rustum, Grace Cancer Drug Center, Roswell Park Memorial Institute, Buffalo, N.Y. 14263.**

POSITIONS OPEN

PSYCHOBIOLOGY. Fall 1978. Tenure-track assistant professorship. Preference is for investigators of the neural bases of learning and memory, but we will also consider investigators of sex, sleep and arousal, and higher cortical functions. Send curriculum vitae, three letters of recommendation, and a statement of future research goals to: **Psychobiology Search Committee, Department of Psychological Sciences, Purdue University, West Lafayette, Ind. 47907.** *An Equal Opportunity Employer.*

RESEARCH on the biochemical mechanisms for induction of porphyria by halogenated aromatic compounds. Ph.D. in biochemistry or pharmacology with experience in toxicology, drug metabolism, and/or heme biosynthesis and metabolism. Send curriculum vitae and three references to: **Dr. Donald R. Buhler, Department of Agricultural Chemistry and Environmental Health Sciences Center, Oregon State University, Corvallis, Oregon 97331.** *An Affirmative Action Employer.*

RESEARCHER—ELECTRON MICROSCOPIST (50 percent time)

Must have at least 3 years of experience in preparation of biological tissues for TEM, ultramicrotomy with diamond knives, EM photo procedures, working knowledge of TEM, thin film preparation, and ability to instruct persons in routine procedures of EM. Experience with SEM preparation for biological samples also preferred. Minimum qualifications: B.S. degree. Salary negotiable, depending on qualifications. Possibility for graduate study. Closing date: 15 December 1977. Send curriculum vitae and references to: **Dr. Judith Murphy, Director, Center for Electron Microscopy, Southern Illinois University, Carbondale, Ill. 62901.** *Southern Illinois University is an Equal Opportunity/Affirmative Action Employer.*

SALES ENGINEER. Nationally known laboratory animal cage manufacturer needs a qualified person to coordinate sales with engineering and production. Experience in cage field necessary as responsibilities include assisting in new product development. We offer negotiable salary, excellent advancement opportunity, and usual benefits, plus bonus and profit-sharing. **Telephone: Merle Uiberg at 616-382-2803,** collect, or send résumé to: **UNIFAB CORPORATION, 5260 Lovers Lane, Kalamazoo, Mich. 49002.**

TUMOR VIROLOGIST. Faculty position available September 1978 at the assistant professor level in a tenure track. Requirements: Ph.D. with postdoctoral experience. Demonstrated ability to initiate, develop, and continue significant research dealing with oncogenic mammalian viruses. Teaching expertise for responsibilities at the undergraduate and graduate levels. Research space available will include a laboratory in the Tissue Culture Facility created by the completion of McKinly Hall in the fall of 1978 on the Newark Campus. Send curriculum vitae, list of publications with reprints, names of at least three references, and a summary of future research interests, to: **Dr. Jacques J. Pene, Cell and Molecular Biology Section, School of Life and Health Sciences, University of Delaware, Newark, Del. 19711.**

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

VICE CHANCELLOR FOR ACADEMIC AFFAIRS THE UNIVERSITY OF WISCONSIN-MADISON

The vice chancellor for academic affairs is second only to the chancellor in responsibility and authority. Major areas of responsibility for this position are: faculty and academic staff personnel matters, academic program review and development, and a leadership role in budget policy development and implementation. Qualifications required include: significant academic and administrative experience, appreciation of the role of faculty in the governance of the institution, and the ability to provide strong academic leadership. *The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer and the committee wishes to consider all qualified applicants.* Nominations should be made in writing by 31 December 1977 and should include such biographical information or narrative description as appropriate to support the nomination. Submit to:

Professor E. R. Mulvihill
Vice Chancellor Search and Screen Committee
1410 Van Hise Hall
The University of Wisconsin-Madison
Madison, Wisconsin 53706

FACULTY POSITIONS

College of Medicine, King Faisal University
Dammam, Saudi Arabia

Applications invited from qualified men and women in:

Biology	Biochemistry
Chemistry	Hematology
Physics	Biostatistics
Anatomy	Microbiology
Human Physiology	Parasitology
Pathology	Pharmacology
Epidemiology	General Surgery
Community Medicine	Internal Medicine

Doctorate or equivalent degree required. Language of instruction is English. Positions available starting September 1978; interviews scheduled with the dean in the United States and Great Britain early in 1978.

Salary ranges (monthly salary in Saudi riyals or approximate annual equivalent in US dollars)—professor: SR6,000 to 6,600 or \$20,300 to \$22,300; associate professor: SR4,800 to 5,800 or \$16,300 to \$19,600; and assistant professor: SR3,600 to 4,600 or \$12,200 to \$15,600.

(M.D. degree commands a higher salary, up to 50 percent if a clinical as well as academic appointment held.)

Free furnished accommodations. Airfare to and from Saudi Arabia once a year plus a 45- to 60-day holiday. No Saudi income tax.

Send complete curriculum vitae plus addresses and telephone numbers of three references to:

Mohammed T. Altorki, M.D., MRCP
Dean of the Medical Faculty
King Faisal University
c/o Saudi Arabian Educational Mission
2223 West Loop South, Suite 400
Houston, Texas 77027

Mohammed T. Altorki, M.D., MRCP
Dean of the Medical Faculty
King Faisal University
P.O. Box 9
Isleworth, Middlesex TW7 4LZ
England

Specify dates of teaching appointments and availability.

BIOCHEMICAL PHARMACOLOGY

Applicants are invited for a research assistant's position in our CNS research unit. Candidate should have B.S. or M.S. in biochemistry with laboratory experience in gas chromatography/mass spectrometry and/or radio immunoassay. Training in CNS pharmacology as well as experience in procedures used in small laboratory animals would be beneficial. Additional training in computer science helpful.

Kalamazoo is a medium-size midwestern city offering educational and recreational resources near the research facilities.

Submit resume including salary requirements and availability to:

Myra W. Johnson
Employment Rep.
The Upjohn Company
Kalamazoo, MI 49001

Upjohn

An Equal Opportunity Employer M/F

VICE CHANCELLOR FOR ACADEMIC AFFAIRS

UNIVERSITY OF MARYLAND
BALTIMORE COUNTY (UMBC)

UMBC, a campus of over 5000 students and 330 faculty members, is one of five campuses of the University of Maryland. Its 477-acre campus is adjacent to the city of Baltimore with easy access to Washington. It offers comprehensive undergraduate and expanding graduate programs in the arts and sciences and several related professional areas.

The vice chancellor for academic affairs is the chief academic officer of the campus, reporting directly to the chancellor. He/she is responsible for the overall development and implementation of academic policies and programs. He/she also supervises the office of dean of students and other academic support services. The position requires a person with strong academic credentials and proven administrative ability.

Applicants should submit a current résumé; nominations should include the nominee's current position and address. Letters of reference are not required at this time. The position will be available 1 July 1978. Please send applications and nominations not later than 1 January 1978 to:

Professor Joseph F. Mulligan
Chairman, Vice Chancellor
Search Committee
University of Maryland
Baltimore County Library
5401 Wilkens Avenue
Baltimore, Maryland 21228

The University of Maryland is an Equal Opportunity/Affirmative Action Employer

Hoechst



Applications are invited for the following Scientists in the Research Centre, Hoechst Pharmaceuticals Limited, Mulund, Bombay, India.

Microbiologist, Ph.D.

Ph.D. in Microbiology from a reputed University with at least 3 years experience in the field of antibiotic research. The potential candidate should be experienced in the isolation of antibiotic-producing micro-organisms with a strong background in strain selection, taxonomy and antibiotics fermentation. The selected candidate will lead a group of six assistants engaged in the search for new antibiotics and other microbial metabolites. The preferred age group will be 30 – 35 years.

Microbial Geneticist, Ph.D.

Ph.D. in Microbiology from a reputed University with at least 3 years experience in the field of microbial genetics and molecular biology. The selected candidate will have to improve microbial cultures of industrial importance by genetic manipulation. He will be assisted by a team of 4 research assistants. The preferred age group will be 30 – 35 years.

If you are interested, please send your application to:

Hoechst AG, Personalabteilung T
Referat Naturwissenschaftler, Postfach 80 03 20,
6000 Frankfurt/Main-Höchst, West Germany

POSITIONS OPEN

VISUAL PSYCHOPHYSICS AND ELECTROPHYSIOLOGY. Postdoctoral research position available. Studies of spatio-temporal interactions in normals or in neuro-ophthalmological patients may be pursued. Computer experience preferred. Apply to: **Ivan Bodis-Wollner, M.D., Department of Neurology, Mt. Sinai School of Medicine, 1200 Fifth Avenue, New York, N.Y. 10029.**

ZOOLOGIST, DUKE UNIVERSITY. Assistant professor, continuing position, starting September 1978, to develop a new course on animal diversity, required of zoology majors, to follow an existing introductory semester of biological principles. Advanced teaching and research interests could include systematics, evolution, or ecology. Interested applicants should send a curriculum vitae, statement of research interests, and names of three references to: **Joseph R. Bailey, Chairman, Search Committee, Department of Zoology, Duke University, Durham, N.C. 27706.**

Duke University is an Equal Opportunity/Affirmative Action Employer.

WORKSHOP

THE HEREDITARY DISEASE FOUNDATION

Announces the continuation of its regular interdisciplinary **WORKSHOP PROGRAM** on the subject of **HUNTINGTON'S DISEASE**. These workshops will be held in January, May, and October of each year in various parts of the United States. We are interested in receiving the curriculum vitae of both basic and medical scientists whose investigative work might, either directly or indirectly, shed light on neurogenetic disorders or extrapyramidal disease. Representatives from all branches of cell biology, neurology, pharmacology, virology, immunology, and other disciplines are welcome.

Candidates will be selected by the Scientific Advisory Board of the Hereditary Disease Foundation and will be known as:

MARY JENNIFER SELZNICK FELLOWS

They may attend one or more of the workshops depending on interest and involvement. All travel and hotel expenses are paid plus an honorarium per workshop of \$150. Please send letter and curriculum vitae to: **Hereditary Disease Foundation, 9701 Wilshire Boulevard, Suite 1204, Beverly Hills, California 90212.**

PROGRAMS

DOCTORAL PROGRAM-PHARMACOLOGY

Medical University of South Carolina, Department of Pharmacology, seeks qualified candidates for Ph.D. program. Interdisciplinary environment with research capabilities ranging from gas chromatography-mass spectrometry through cell cultures and animal studies to clinical studies of patients with disease. Research training is available in biochemical pharmacology, physiological pharmacology, drug metabolism, toxicology, analytical chemistry, and clinical pharmacology. Stipends available: \$3900 per year. Contact: **Graduate Training Director, Department of Pharmacology, Medical University of South Carolina, Charleston, S.C. 29401.**

FELLOWSHIPS

ENDOCRINOLOGY/METABOLISM

NIH postdoctoral research fellowships (up to 3 years' duration) available in endocrinology/metabolism at Mayo Graduate School of Medicine, Mayo Medical School. Candidates must have M.D., Ph.D., or equivalent degree, be United States citizens or permanent residents, and be committed to academic careers. Over 20 faculty members in program with basic and clinical research interests in all areas of endocrinology and metabolism. Supported by USPHS Research Service Award; levels of stipends depend on previous experience. Available July 1978. Send curriculum vitae and brief statement of research interests and career goals to:

Dr. Colum A. Gorman
Endocrinology/Metabolism Training Program
4-418 Alfred
Mayo Clinic
Rochester, Minn. 55901

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FELLOWSHIPS

PREDOCTORAL AND POSTDOCTORAL POSITIONS IN MEDICINE AND BIOCHEMISTRY. Fellowship available to carry out research projects in the areas of lipid, lipid-protein interactions, membranes, plasma lipoproteins, atherosclerosis, and other diseases. The predoctoral positions are for 3 years toward a Ph.D. degree. Postdoctoral positions requiring an M.D., Ph.D., or equivalent degree are in the application of biophysical and biochemical techniques to basic research in health-related problems. Some clinical training in cardiology or gastroenterology is available if desired. Prior experience in the field is not necessary, full training will be provided by six full-time faculty. Techniques applied include tissue separation and chemical analysis, tissue culture techniques, analytical lipid and protein techniques, scanning calorimetry, x-ray diffraction and scattering, electron and light microscopy. Contact: **Dr. D. M. Small, Biophysics, Department of Medicine, Boston University Medical Center, Boston, Mass. 02118, or telephone: 617-247-5038.**

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GRADUATE TRAINING IN PHARMACOLOGY. Research training and course work leading to the Ph.D. degree and realistically designed for career opportunities in this expanding field are offered. Major departmental research programs include molecular, cardiovascular, renal, and nervous system pharmacology; the toxicology of therapeutic and environmental agents including drugs of abuse; clinical pharmacology. A limited number of fellowships offering stipend and tuition are available. Early application for August 1978 is advised. Apply to: **Director of Graduate Studies, Department of Pharmacology and Therapeutics, Medical School, State University of New York at Buffalo, 127 Farber Hall, Buffalo, N.Y. 14214. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIPS IN CARDIOPULMONARY BIOMEDICAL ENGINEERING. Multidisciplinary research training in biomedical engineering aspects of cardiopulmonary systems available 1 September 1978 under an NIH-National Research Service Institutional Award. Appropriate for fellows with Ph.D. degrees in engineering, physiology, or biophysics, or a medical degree (M.D.). Stipend \$10,000 to \$14,000, depending on experience. Send résumé and references to: **Dr. Fred S. Grodins, Biomedical Engineering, University of Southern California, Los Angeles, California 90007. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIPS for M.D.'s or Ph.D.'s available in radiation oncology. Established Special Radiation Cancer Center at University Medical Center in Kentucky-Blue Grass Region. Training in radiation oncology and related medical physics or radiobiology with emphasis on cancer treatment and cancer research. Program funded by NCI under NRS training award for postdoctoral training. Training leads to certification by American Board of Radiology. Inquiries to: **Chairman, Department of Radiation Medicine, University of Kentucky Medical Center, Lexington, Kentucky 40506; telephone: 606-233-5108.**

PREDOCTORAL FELLOWSHIPS IN SYSTEMS PHYSIOLOGY AND BIOMEDICAL ENGINEERING. Multidisciplinary research training leading to Ph.D. degree in biomedical engineering available 1 September 1978 under an NIH-National Research Service Institutional Award. Appropriate for students with B.S. degrees in engineering, physics, chemistry, or biology. Stipend: \$3900, plus tuition. Send letters of inquiry with résumé to: **Dr. Fred S. Grodins, Biomedical Engineering, University of Southern California, Los Angeles, California 90007. An Equal Opportunity/Affirmative Action Employer.**

PREDOCTORAL AND POSTDOCTORAL TRAINING IN NEUROBIOLOGY AND MEMBRANE BIOPHYSICS

The Department of Physiology and Biophysics, University of Miami, School of Medicine, emphasizes cellular and molecular approaches to biological problems and offers training in neurobiology, developmental neurobiology, and membrane biophysics. Fellowships, traineeships, and assistantships are available. For details, write: **Dr. David Wilson, Department of Physiology and Biophysics, University of Miami, School of Medicine, Box 520875, Miami, Fla. 33152. An Equal Opportunity/Affirmative Action Employer.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS

Postdoctoral fellowships are available at the Rosenstiel School of Marine and Atmospheric Science, University of Miami, for the 1978-1979 academic year.

The interests of the faculty include, but are not limited to, experimental studies and modeling of: interactions in controlled environments, the benthic boundary layer of the deep sea, the ocean as a climate-controlled biogeochemical system, coastal and shelf ecosystems, and large tropical weather systems; and the development of methods for the optimal utilization of ocean resources.

Applications should include a statement of research interests, curriculum vitae, and references, and should be mailed to: **Dr. Warren J. Wisby, Associate Dean, Rosenstiel School of Marine and Atmospheric Science, 4600 Rickenbacker Causeway, Miami, Florida 33149, by 15 January 1978.**

The University of Miami is an Equal Opportunity Employer.

Hypertension research postdoctoral **FELLOWSHIPS** at The Medical College of Ohio beginning 1 July 1978. Applicants should have either Ph.D. in any basic science (pharmacology, biochemistry, physiology, and genetics) or M.D. with strong interest in basic or clinical research. M.D. fellows may also be part of training programs in endocrinology or nephrology. Address inquiries to: **Dr. John P. Rapp, Department of Medicine, Medical College of Ohio, C.S. 10008, Toledo, Ohio 43699. Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIPS—The Cancer Research Center of the University of North Carolina at Chapel Hill has immediate and future openings for persons completing graduate studies to train under investigators in basic cancer-related research in tumor virology, immunology, chemical carcinogenesis, cancer cell biology, molecular biology, and antineoplastic pharmacology. Unique resources and departmental affiliations. Stipends are \$10,000 to \$11,500 per year. Candidates must be U.S. citizens or eligible for permanent visa. Send for brochure or apply with curriculum vitae, three letters of recommendation, and a statement of research to: **Dr. Joseph S. Pagano, Director, Cancer Research Center, Box 30, Clinical Sciences Building, Chapel Hill, N.C. 27514.**

DOCTORAL FELLOWSHIP HARVARD UNIVERSITY

The initial Leslie Silverman Fellowship for students seeking doctoral degrees in environmental health will be awarded for the 1978-1979 academic year. It will provide tuition plus a monthly stipend of \$300. For details, contact: **Chairman, Department of Environmental Health Sciences, Harvard School of Public Health, 665 Huntington Avenue, Boston, Mass. 02115. Applications from women and members of minority groups are encouraged.**

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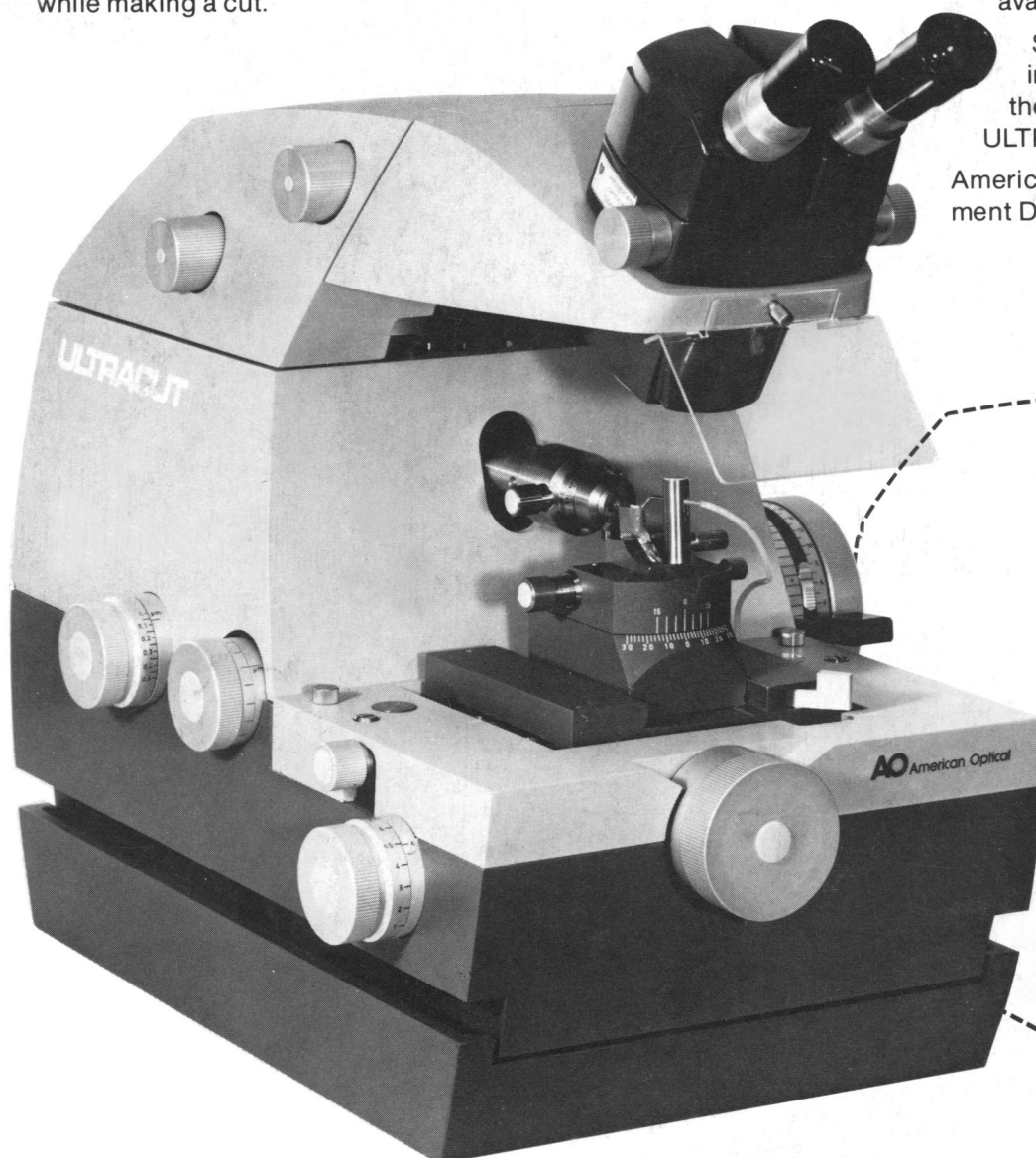
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