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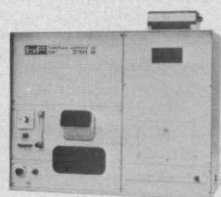
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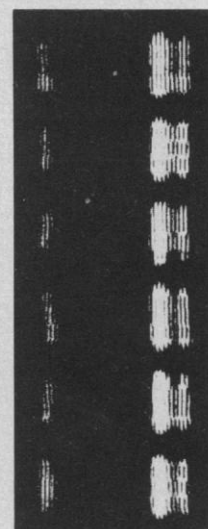
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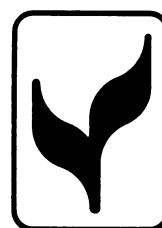
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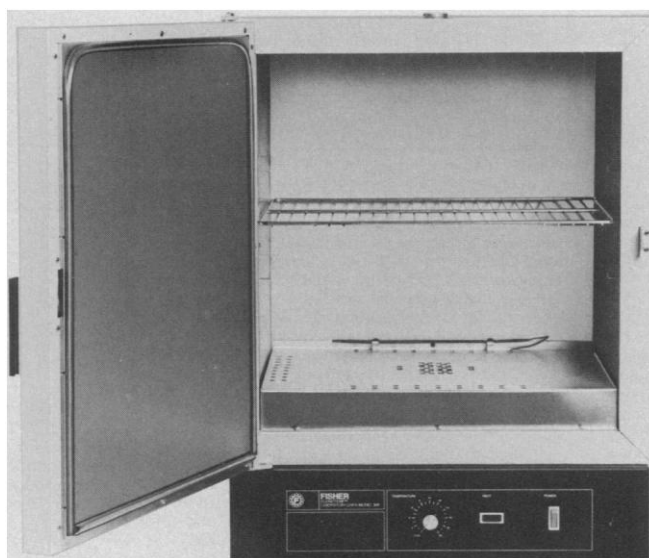
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POSITIONS WANTED

Anatomist, Ph.D.: seeking position teaching neuroanatomy. Successful, productive research. Experienced teacher. Box 170, SCIENCE. X

Biochemist-Chemist, Ph.D. Broad research and teaching experience. Publications. Expertise in neurochemistry, membranes, proteins, lipid biochemistry, enzymology. Research in diabetes and metabolism. Strong background in analytical methods and radioisotopes. On medical school faculty for last 6 years. Desires academic or industrial position. Box 182, SCIENCE. X

Bio-organic/Clinical/Medicinal Chemist, Ph.D. Five years of postdoctoral, 3 years of hospital experience. Broad synthetic background in cyclic nucleotides, alkylating agents, publications, patent. Desires academic, hospital, industrial position. R. Gohil, 21 Vinson, Apartment 8, Tonawanda, New York 14150. X

Chemist/Pharmacologist, Ph.D. Seeks challenging position in government or industry. Experience: pharmacokinetics, metabolism, toxicity of drugs, pesticides and toxic substances, proteins, immunochimistry, cancer, radioisotope, EPA, FDA, NIOSH regulations, contract research. Administration. Publications. Available immediately. Box 107, SCIENCE. 4/22; 5/6, 20

Cytogeneticist, Ph.D. Eight years of diversified background in mammalian cytogenetics, tissue culture, cell hybridization, and cancer research. Several publications. Undergraduate and medical school teaching experience. Desires position in service laboratory, education, or research. West or Southwest. Box 185, SCIENCE. X

Inhalation Toxicologist/Biochemical Pharmacologist, Ph.D. biochemistry, 1973. Publications and postdoctoral experience in inhalation toxicology, drug metabolism. Seeking research/academic/industrial position. Box 186, SCIENCE. X

Oceanographer, B.S. civil engineering, 2 years of graduate school, 2 years consulting. Good computer skills, good writing skills, diverse educational background, enjoys field-oriented studies. Desires position in research or environmental consulting. Interests in estuarine circulation, tidal dynamics, mathematical modeling. Will relocate from Washington, D.C. Box 184, SCIENCE. X

POSITIONS WANTED

Immunoparasitologist, D.V.M., M.S. (biochemistry), Ph.D. Experience in research, practice, and teaching. Seeking research or research-academic position. Box 183, SCIENCE. X

Organic Chemist/Immunochemist/Clinical Chemist, Ph.D. 1974: structures of bacterial polysaccharide antigens; M.Sc.: organic synthesis; post-Ph.D.: immunochemistry with some CMI; residency in clinical chemistry. Broad experience in teaching, research, and clinical laboratory. Desires responsible position in university, hospital, or industry. Box 181, SCIENCE. X

Physical Chemist, Ph.D. 1971. Experienced in spectroscopy, photochemistry, and thermoluminescence dating of ceramics. Desires industrial, academic, government, or institutional employment in these or other suitable fields in the western United States. K. M. Cunningham, 1315 16th Street, NW, Apartment 315, Washington, D.C. 20036. 4/22, 29X

Scientific Generalist, Mathematical Modeling Expert. Becomes displaced person on death of center grant. Strong experimental background in biochemistry, microbiology. Effective consultant-collaborator. Interested in molecular regulatory mechanisms growth, development, aging; transport; behavioral models; logic of science; applied mathematics curriculum development. Dr. J. Reiner, Albany Medical College, Albany, N.Y. 12208. X

POSITIONS OPEN

ANATOMIC PATHOLOGIST to be assistant to the chief, laboratory service and head of anatomic pathology for academic 353-bed G M & S Veterans Administration Hospital. Must qualify for academic appointment at Brown University. Teaching and research experience and interest necessary. Expertise in cytology and electron microscopy preferred. Immediate opening. Salary commensurate with qualifications. Benefits include health insurance, life insurance, and retirement plans. Send curriculum vitae to E. M. Griffith, M.D., Chairman, Search Committee, VA Hospital, Providence, R.I. 02908 or telephone: 401-521-1700, extension 3318. *Equal Opportunity Employer.*

ANATOMIST/HISTOLOGIST, in undergraduate biology department. Tenure track position, Ph.D. required, rank dependent on experience, assistant professor level preferred. To teach comparative or functional anatomy, histology, team-taught general biology course and an advanced course in own specialty. Primary consideration given to teaching excellence; research encouraged. Applications from women particularly welcome. Send curriculum vitae and three letters of recommendation to: Dr. Bruce B. Criley, Head, Biology Department, Illinois Wesleyan University, Bloomington, Ill. 61701.

ASSISTANT PROFESSOR Social Work/Maternal and Child Health

Teach the social work and social policy aspect of maternal and child health, and participate in an ongoing evaluation research project in social and community aspects of child health services. An M.S.W. and doctorate degree in related field required. Send résumé and names and addresses of references to: Robert J. Haggerty, M.D., Harvard School of Public Health, Room 300, 677 Huntington Avenue, Boston, Mass. 02115. Minorities, women, and handicapped are encouraged to apply.

ASSISTANT PROFESSOR OF BIOLOGY: fall 1977. Must have Ph.D. with emphasis in developmental biology (vertebrate embryology) and college teaching experience. Teaching responsibilities include courses in vertebrate embryology, cytology, and/or tissue culture. To serve as coordinator for non-majors in zoology and direct undergraduate and graduate research in area of specialization. Salary \$12,886 minimum. Send curriculum vitae, publications list, summary of teaching and research objectives, and three letters of references to: Chairman, Department of Biology, Southern Connecticut State College, New Haven, Connecticut 06515 by 15 May 1977.

POSITIONS OPEN

ANATOMIST. The Department of Biomedical Anatomy of the University of Minnesota School of Medicine at Duluth invites application for a position as an assistant or associate professor. A Ph.D. in the anatomical sciences or M.D. with graduate anatomy training is required. Candidates should be interested in and capable of teaching human gross and microscopic anatomy. Evidence of excellence in teaching and ability to establish an active program of scholarly investigation is essential for consideration. Applicants with interests and training in TEM and SEM will be strongly considered. The appointment will begin on or about 1 July 1977. Applicants should submit by 15 May a curriculum vitae including teaching experience and publications, and the names of three references to: Dr. A. R. Severson, Department of Biomedical Anatomy, School of Medicine, University of Minnesota, 2205 East 5 Street, Duluth, Minnesota 55812. *The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR OF MEDICINE, endocrinology, at fast-growing medical school. Requirements: M.D. and board eligibility in medicine and endocrinology or equivalents. Applicants should have demonstrated aptitudes for independent research and for teaching all aspects of clinical endocrinology and metabolism. Stimulating environment for endocrine research; excellent laboratory facilities. Write, sending curriculum vitae to: Dr. Victor Lavis, Department of Medicine, University of Texas Medical School, Houston, Texas 77025. *We are an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR MICROBIOLOGY

Prefer interest in bacterial structure or physiology of human pathogens. Must develop own research program. Obligatory participation in medical microbiology teaching to medical and graduate students. Salary negotiable. Communicate by letter ONLY, sending curriculum vitae, bibliography, and names of two references to: Dr. E. D. Kilbourne, Chairman, Department of Microbiology, MOUNT SINAI SCHOOL OF MEDICINE, 100th Street and Fifth Avenue, New York, N.Y. 10029. *An Equal Opportunity Employer.*

ASSOCIATE DIRECTOR/PROGRAMMING Smithsonian-Peace Corps Environmental Program

This program, which helps design, document, train, and recruit for Peace Corps environmental and natural resources assignments, seeks a person to assist in the development of projects overseas. Graduate degree in a natural science required; Peace Corps or other overseas experience desirable. Write Dr. Sherburne, Arts and Industries 3468, Smithsonian Institution, Washington, D.C. 20560.

ASSOCIATE MEDICAL DIRECTOR OF IMMUNOLOGY DIVISION—Department of Pathology has an opening for a M.D. qualified in and experienced in histocompatibility testing, clinical immunology, and blood banking. Must include professional certification, experience in teaching and research productivity.

Apply to Richard T. Smith, M.D., Professor and Chairman, Department of Pathology, University of Florida, Box J-275, J. Hillis Miller Health Center, Gainesville, Florida 32610.

An Equal Opportunity Employer

CELLULAR PHYSIOLOGIST with strong biochemical background for calcium transport studies. Send letters of application, including names of references, to: Dr. Felix Bronner, Department of Oral Biology, University of Connecticut Health Center, Farmington, Connecticut 06032. *An Equal Opportunity Employer, M/F.*

POSITIONS OPEN

CHAIRMAN, DEPARTMENT OF PHARMACOLOGY, MEDICAL COLLEGE OF GEORGIA

Applicants must have demonstrated ability in medical and graduate education, research, and an interest in clinical pharmacology. Send curriculum vitae and references to **Dr. Virendra B. Mahesh, Department of Endocrinology, Medical College of Georgia, Augusta, Georgia 30901. An Equal Opportunity/Affirmative Action Employer.**

CHAIR DEPARTMENT OF ANATOMY UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

The University of Michigan Medical School is seeking an individual to assume the chair of its Department of Anatomy. Qualifications include: established reputation and leadership in the field of anatomy with demonstrated competence and abilities in teaching, research, and scholarship and previous administrative experience. Respond to: **Box 178, SCIENCE, Code 100BH. A Nondiscriminatory, Affirmative Action Employer.**

CHAIR DEPARTMENT OF PATHOLOGY UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

The University of Michigan Medical School is seeking a physician to assume the chair of its Department of Pathology. Qualifications include: national stature as a leader in the discipline of academic pathology; established reputation in research; competence in clinical and anatomic pathology; demonstrated commitment to teaching; and unequivocal interest in administration of an academic department. Respond to: **Box 179, SCIENCE, Code 100BH. A Nondiscriminatory, Affirmative Action Employer.**

The Department of Radiological Sciences at the University of California, Irvine, invites applications for a **chief of PEDIATRIC RADIOLOGY** at assistant or associate professor level. Applicants should be Board-certified radiologists with special training in pediatric radiology, preferably at a university medical school, and must be prepared to develop a research program. The post will include responsibility for the clinical operation of the Pediatric Radiology Division and teaching at undergraduate and resident levels.

Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. Applications, which must include a short biography and copies of any publications, should be sent to:

Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717

Closing date: 31 May 1977.

The Department of Radiological Sciences at the University of California, Irvine, College of Medicine invites applications at assistant professorial level for a **PHYSICIST OR ENGINEER** to join the newly developed **MEDICAL IMAGING TEAM**. Candidates must possess a Ph.D. degree in physics or engineering and have experience in medical imaging research in the fields of both nuclear medicine and computed tomography. They must be able to supply evidence of original and innovative research in the above fields. The successful candidate, in addition to developing a strong research program, supervising graduate students, and teaching in the graduate program in radiological sciences will have hospital responsibilities in the Divisions of Nuclear Medicine and CT Scanning. It should be emphasized that only candidates with extensive experience in medical imaging will be considered for this position. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Applications, which must include a short biography and copies of any publications, should be sent to:

Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717

Closing date: 31 May 1977.

22 APRIL 1977

POSITIONS OPEN

ASTROPHYSICS POSITION AT NEW YORK UNIVERSITY

The Physics Department of New York University, in fall 1977, expects to have a faculty position for an astrophysicist. Although the position would normally be at the assistant professor level, it is conceivable that a more senior appointment could be made for a highly qualified individual. While there is a preference for a theoretical astrophysicist, observers with suitable programs should apply. Candidates must be able to conduct research of significance and to contribute strongly in the department's undergraduate teaching program. Applications should be submitted to **Professor E. L. Schucking, Chairman of the Search Committee, 4 Washington Place, New York, N.Y. 10003. New York University is an Equal Opportunity/Affirmative Action Employer.**

THE UNIVERSITY OF MICHIGAN Department of Psychiatry Child Psychiatrist

Instructor or assistant professor of psychiatry, University of Michigan, Department of Psychiatry. To work with pediatrics-liaison/consultation program. Should have documented teaching and research interests and experience. Send résumé to: **Box 180, SCIENCE, Code 3700H0. A Nondiscriminatory, Affirmative Action Employer.**

A position for an **EM TECHNICIAN** will be available July 1977. The candidate should have a B.S. or M.S. degree, experience with all aspects of the TEM, and a background in hematology. Experience with a STEM and SEM, as well as with tissue culture systems, would be desirable although not required. Send curriculum vitae to **Dr. Anthony Fuscaldo, Cancer Institute, Hahnemann Medical College and Hospital, 230 North Broad Street, Philadelphia, Pa. 19102.**

ENVIRONMENTAL SCIENCE/BIOLOGY—Teach courses in general and plant biology and environmental science. Teaching experience and forestry background with doctorate preferred. Require person also comfortable participating in the College transdisciplinary general education program which raises value-related questions, focuses on the intellectual and personal development of students, and utilizes a wide variety of teaching-learning processes. Need enthusiastic, flexible person who enjoys teaching students from a wide range of backgrounds within the context of a small, liberal arts, innovative, church-related college. Rank and salary commensurate with qualifications. *Affirmative Action/Equal Opportunity Employer.* Application deadline, 20 May. Send résumé to **Dean Margaret Goddin, Davis-Elkins College, Elkins, West Virginia 26241.**

FACULTY POSITION

Applications are invited for a faculty appointment in the Department of Medical Microbiology, College of Medicine, effective 1 July 1978. Such appointments are usually made as assistant professor. To teach microbiology, virology, or immunology to medical and graduate students. Research should be at the basic biochemical or genetic level. Postdoctoral experience in microbiology and biochemistry strongly preferred. *Applications from all qualified candidates welcome. Women and minorities encouraged to apply.* Send curriculum vitae and four letters of recommendation to: **Dr. Paul Sypherd, Department of Medical Microbiology, University of California, Irvine, College of Medicine, Irvine, Calif. 92717, before 1 August 1977.**

The Southern Illinois University School of Medicine and the Department of Zoology invite applications for a continuing 12-month **FACULTY POSITION**. Applicants are expected to have postdoctoral experience and publications demonstrating productivity and originality in research. Prior experience with medical education is desirable. Responsibilities include teaching histology to medical students; research and teaching in area of specialty in Department of Zoology; and developing a program of research with graduate students. Rank and salary are open, commensurate with past experience and performance. Immediate opening. Please send curriculum vitae, bibliography, a short statement of future research goals, and three letters of reference by 15 May 1977 to: **Dr. J. A. Beatty, Department of Zoology, Southern Illinois University, Carbondale, Illinois 62901.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

FACULTY POSITION

The Department of Pharmacology at The University of Texas Health Science Center at San Antonio is seeking to fill a faculty position with a primary responsibility for teaching dental therapeutics and coordinating dental pharmacology and postgraduate pharmacology courses.

Development of an independent research program is expected. Faculty rank is open. Applicants should submit their curriculum vitae, lists of publications, and names of three references to:

Leslie P. Felpel, Ph.D.
Assistant Professor
Department of Pharmacology
Chairman, Search Committee
The University of Texas Health Science Center
at San Antonio
7703 Floyd Curl Drive
San Antonio, Texas 78284

The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

A position is available at the professor, associate professor, or assistant professor level for an individual with major interest and experience in genetics of microorganisms or mammalian cells. Send curriculum vitae and names of three references to **Appointments Committee, Department of Immunology and Microbiology, 540 East Canfield Avenue, Detroit, Michigan 48201. An Equal Opportunities Employer.**

IMMUNOLOGIST—Prefer interest in cellular immunology. Must develop own research program. Obligatory participation in medical school microbiology teaching. Salary negotiable. Communicate by letter ONLY, sending curriculum vitae, bibliography, and names of two references to: **Dr. E. D. Kilbourne, Chairman, Department of Microbiology, MOUNT SINAI SCHOOL OF MEDICINE, 100th Street and Fifth Avenue, New York, N.Y. 10029. An Equal Opportunity Employer.**

CHIEF: DIVISION OF MEDICAL IMAGING DEPARTMENT OF RADIOLOGICAL SCIENCES UNIVERSITY OF CALIFORNIA, COLLEGE OF MEDICINE, IRVINE

The Department of Radiological Sciences at the University of California, College of Medicine, Irvine, invites applications at associate professor or full professor level for the newly created position of **CHIEF OF MEDICAL IMAGING**. Applicants must possess a Ph.D. degree in physics or engineering with extensive postdoctoral research experience in medical imaging problems and proven ability to attract grant funding. The Department of Radiological Sciences places a strong emphasis on ultrasound development and preference will be accorded candidates with special expertise in this area. Applicants must have proven their ability to assemble a productive research team at a senior level and must be outstandingly creative in their own research area. Duties of this position will include assisting the chairman of the department in building a medical imaging team spanning the Divisions of Nuclear Medicine, Ultrasound, and Radiodiagnosis, taking charge of the on-going graduate program in radiological sciences and assuming the position of supervising hospital physicist at the University of California, Irvine, Medical Center, a position which includes supervision and direction of several physicists with patient-care responsibilities in the areas of radiotherapy, nuclear medicine, and diagnostic radiology.

Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. Applications, which must include a short biography and copies of any publications, should be sent to:

Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717

Closing date: 31 May 1977.

POSITIONS OPEN

JUNIOR FACULTY POSITIONS: Two positions are open for application at the adjunct assistant professor level in the Department of Medicine, University of California, San Francisco. Candidates must have Ph.D. or equivalent degree and postdoctoral training. A strong background is required in the following: DNA sequencing, RNA/cDNA hybridization; RNA and DNA synthesis; mRNA translation and cell-free translational systems; hormone receptors; recombinant DNA technology; radioimmunoassay. The positions also require documented proficiency in independent investigation, and capabilities in supervising and overseeing the work of graduate students, postdoctoral fellows, and technicians. Applications must be received prior to 30 April 1977. Contact: **John D. Baxter, M.D., Metabolic Research Unit, 1143 HSW, University of California, San Francisco, California 94143.**

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

RESEARCH POSITION: One position is open at University of California, San Francisco, Medical Center, Department of Medicine, for associate research biochemist, step III. Candidate must hold a Ph.D. or equivalent degree and have several years of postdoctoral training. Must have a background in: hormone regulation; somatic cell genetics and tissue culture; demonstrated expertise in acrylamide gel electrophoresis, especially two-dimensional methods. Candidate should have demonstrated independent research capabilities, and is expected to interact with and supervise graduate students, postgraduate students, and technicians, and to carry out an active research program. Applications must be received before 30 April 1977. Contact: **John D. Baxter, M.D., 1143 HSW, Metabolic Research Unit, University of California, San Francisco, California 94143.**

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INSTRUCTOR

Teaching (25 percent, gross anatomy or neuroanatomy) and research position. Desirable research area: developmental biology as it relates to reproductive physiology and/or organogenesis. Send inquiries with curriculum vitae to: **Dr. M. R. Schweisthal, Department of Anatomy, School of Medicine, East Carolina University, Greenville, N.C. 27834. East Carolina University is an Equal Opportunity/Affirmative Action Employer.**

MICROBIOLOGIST. Applications are invited for a faculty position in the Department of Microbiology. Applicants should have a conferred doctorate and demonstrated ability in teaching in the area of general microbiology and service courses to professional students. The successful candidate will be expected to develop and direct a quality research program on microbial pathogens and pathogenicity. Appointment will be in a tenure track position on a 9-month basis at the rank of assistant professor beginning 1 October 1977. Send a biographical sketch and a list of at least five references to: **Professor James I. Frea, Department of Microbiology, The Ohio State University, 484 West 12 Avenue, Columbus, Ohio 43210. The Ohio State University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of minority groups.**

NATURAL RESOURCES (SOILS)

Assistant or associate professor in the Department of Natural Resources. Will teach undergraduate and graduate courses in soils and related areas, with some opportunity for research. Bachelor's degree plus 3 years of graduate study in soil science or related field required with 3 years of professional experience. Doctorate is preferred. Although not required, an interest and competence in wastewater treatment and/or solid waste management is desirable. Department will occupy new teaching and research facilities in June 1977. Send résumés, two letters of recommendation, and transcripts of all college work to the following address prior to 25 May 1977: **Dr. Clyde W. Hibbs, Chairman, Department of Natural Resources, Ball State University, Muncie, Indiana 47306.**

Ball State University Practices Equal Opportunity in Education and Employment.

POSITIONS OPEN

NITROGEN FIXATION INTERNATIONAL AGRICULTURE

Faculty and Postdoctoral positions available. Applicants must have superior background in plant biology. Experience desirable but not required. Contact **Dr. A. App, Boyce Thompson Institute, 1086 North Broadway, Yonkers, N.Y. 10701. An Equal Opportunity/Affirmative Action Employer.**

PHYSIOLOGIST at instructor level wanted to supervise, prepare, and instruct laboratories in physiological chemistry and systemic physiology in first year veterinary medical curriculum. Applicants must have B.S. or M.S. in physiology. Position available 1 July 1977. Qualified applicants are invited to submit a curriculum vitae, one letter of recommendation, names of two references, and other supportive material to: **Dr. R. N. Gatz, Search Committee Chairperson, Department of Anatomy and Physiology, College of Veterinary Medicine, Kansas State University, Manhattan, Kansas 66506. Kansas State University is an Equal Opportunity/Affirmative Action Employer.**

PLANT ANATOMIST/MORPHOLOGIST

The Department of Plant Science, University of Delaware, has a position available 1 July 1977 at the assistant professor level. Candidates should be prepared to teach higher plant anatomy/morphology/taxonomy at undergraduate level, and to establish a research program in his/her area of specialty. Research experience with a plant of agronomic horticultural or heuristic value is desired, as is a collaborative instinct with staff, students, and colleagues. The specific area of research is open. Applicants should send curriculum vitae, transcripts, and three letters of reference to: **Dr. Donald F. Fieldhouse, Plant Science Department, University of Delaware, Newark, Delaware 19711, before 1 May 1977.**

The University of Delaware is an Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE: position available now for analysis and characterization of natural macromolecules using HPLC, FT-NMR, and so forth. State-of-art instrumentation available. Salary competitive. Applicants send résumé, transcripts, and two letters of reference to: **Dr. J. L. Wong, Department of Chemistry, University of Louisville, Louisville, Ky. 40208. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOW-RESEARCH ASSOCIATE

Position available 1 June 1977 for Ph.D. or M.D. who is interested in and has some familiarity with experimental infections in animals and cell cultures, and with cellular immunity. To study immunity in toxoplasmosis and other intracellular infections. Send résumé and references to **J. K. Frenkel, M.D., Ph.D., Department of Pathology, University of Kansas Medical Center, Kansas City, Kansas 66103. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION. Affinity chromatography in purification of opiate receptor. One to 2 year appointment, \$11,000, to begin immediately. Ph.D. medicinal, or biochemist or biochemical pharmacologist with experience in affinity and other chromatographic techniques, radioisotopic assays, electrophoresis, and protein purification. Interested persons with this background should send résumés and three letters of reference to: **Dr. Mokotoff, 727 Salk Hall, University of Pittsburgh, School of Pharmacy, Pittsburgh, Pa. 15261. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS available immediately for studies on structure, metabolism, and permeability of basement membranes. Projects include studies on placental, retinal vessel, and kidney basement membranes from normal and diabetic human and animal tissues. Previous experience in basement membrane, collagen, or glycoprotein biochemistry preferred. Send curriculum vitae and references to **Dr. Elias Meezan, Department of Pharmacology, University of Arizona, College of Medicine, Tucson, Arizona 85724. The University of Arizona is an Equal Opportunity/Affirmative Action Employer under state and federal laws and regulations, including Title IX, 1972 Educational Amendments.**

POSITIONS OPEN

POSTDOCTORAL POSITION-THROMBOSIS RESEARCH CENTER-Postdoctoral position: a biochemist to study the regulation of both myosin enzymatic activity (phosphorylation) and actin polymerization state and the relationship to metabolism in platelets. Please send curriculum vitae and references to **Dr. Holm Holmsen, Specialized Center for Thrombosis Research, Temple University Health Science Center, 3401 North Broad Street, Philadelphia, Pa. 19140. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available summer or fall 1977 in NRSA program in environmental pathology. Preference given to recent graduate in molecular biology, nucleic acid biochemistry, or related discipline with interest in molecular mechanisms of cellular toxicity, mutagenesis, or carcinogenesis. Send curriculum vitae and names of three references to **Dr. Joe W. Grisham, Department of Pathology, University of North Carolina, Chapel Hill, N.C. 27514. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available, fall 1977, for studies on tumor immunochemistry and biology. Experience in biochemical and immunochemical techniques and/or cell biology required. Send curriculum vitae and names of two references to:

**Dr. Erkki Ruoslahti
Division of Immunology
City of Hope National Medical Center
Duarte, California 91010**

RESEARCH ASSOCIATE. Postdoctoral position available immediately to work on biochemical aspects of acute pulmonary edema and emphysema in animals. Responsibilities include synthesis of in-doles and metabolic pathway determination by identification of urinary metabolites. Ph.D. degree, with experience in biochemistry, metabolism, organic chemistry, and analytical techniques desirable. Submit résumé, transcripts, and three letters of recommendation by 1 May 1977, to **Dr. J. R. Carlson, Department of Animal Sciences, Washington State University, Pullman, Wash. 99164. Washington State University is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATES IN RESPIRATORY PHYSIOLOGY. Two NIH grant supported postdoctoral positions available 1 August 1977. Some background in quantitative sciences desirable. Close interaction with Departments of Physiology and Medicine at University of Washington. (i) Physical properties of lung surfactant in situ and its effects on parenchymal interstitial pressure and on edema formation. (ii) Regulation of respiration in animals and exercising humans. Résumés and references to: **Dr. J. Hildebrandt, Virginia Mason Research Center, 1000 Seneca Street, Seattle, Wash. 98101.**

SOLID EARTH GEOPHYSICISTS

The State University of New York at Stony Brook invites applications for a faculty position in the Department of Earth and Space Sciences. We are seeking candidates with research interests in theoretical geophysics, planetary interiors, and/or plate tectonics to complement the existing research programs. Responsibilities of this position include maintaining an active academic research program, supervising graduate students, and teaching formal courses. Applicants must have completed a Ph.D. by the time of appointment. Qualified persons should send résumé to **Donald J. Weidner, Chairman, Geophysics Search Committee, Department of Earth and Space Sciences, State University of New York, Stony Brook, New York 11794. The State University of New York is an Equal Opportunity/Affirmative Action Employer.**

VETERINARY ANATOMIST: A position is available at the assistant or associate professor level, effective 1 July 1977, in the Department of Anatomy and Physiology, College of Veterinary Medicine, Kansas State University. Ph.D. required; preference will be given to applicants with D.V.M. who have teaching experience. Responsibilities will include: (i) participation in teaching gross and applied anatomy, and (ii) participation in the graduate research program, preferably in area of large animal anatomy. Interested applicants should submit a curriculum vitae and list of three references, no later than 2 weeks from publication date to: **Dr. D. E. Weinman, Department of Anatomy and Physiology, College of Veterinary Medicine, Kansas State University, Manhattan, Kansas 66506. Kansas State University is an Equal Opportunity/Affirmative Action Employer.**

FIVE POSITIONS in established laboratory, East Coast location, to be added to ongoing in vivo and in vitro chemical carcinogenesis programs. Presently considering three Ph.D.'s, one D.V.M. pathologist, and one B.A. or M.A. with experience in histologic evaluations. Individuals will be selected on the basis of experience, ability to integrate into ongoing studies and ability to expand our base in carcinogenesis with known carcinogens and tobacco-related materials. Qualified individuals in the following scientific disciplines to be given first consideration:

BIOCHEMIST/MOLECULAR BIOLOGIST—Strong background in biochemistry, particularly mixed-function oxidase metabolism, and macromolecular biosynthesis required to undertake studies in genetic control of metabolism and cancer susceptibility in human and murine systems.

D.V.M./EXPERIMENTAL PATHOLOGIST—Experience in rodent pathology essential. Individual will play a major role in ongoing and future carcinogenesis studies.

PHYSIOLOGIST/NUTRITIONIST—Broad background essential to expand inhalation aspects of ongoing studies. Of prime interest are physiological changes of lungs, heart, and so forth, related to smoke inhalation and correlated with genetic control of cancer susceptibility in rodents. Present emphasis on nutrition makes this a key area of expansion.

INHALATION TOXICOLOGIST—Experience in chamber and aerosol exposure of rodents essential. Instrumentation capabilities with electronic equipment is desirable.

HISTOLOGICAL DIAGNOSTIC TECHNICIAN—Must be able to evaluate routine histology slides in tissue target oriented carcinogenesis studies and assist pathologist.

Please send curriculum vitae to:

**Microbiological Associates
Personnel Office
5221 River Road
Bethesda, Md. 20016**

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THE AUSTRALIAN NATIONAL UNIVERSITY JOHN CURTIN SCHOOL OF MEDICAL RESEARCH

CHAIR OF CLINICAL SCIENCE

Applications are invited for appointment to the chair of clinical science.

The Department of Clinical Science is one of nine departments in the John Curtin School of Medical Research and is located a short distance from the school in the Canberra Hospital.

The professor will be appointed until age 65. He/she will also be appointed head of department for an initial term which would be determined by the University after consultation with the professor.

The appointee, who should be medically qualified, will be responsible for research work in the department and should himself/herself contribute to this research by developing a field of clinical science. Clinical duties may be undertaken within the hospital. No restriction is placed on the field of clinical science to be developed, but an applicant whose interests relate closely to research already being done in the school would be preferred.

CHAIR OF EXPERIMENTAL PATHOLOGY

The University is proceeding with an appointment to the chair of experimental pathology. Applications are invited from research workers interested in those areas of basic research concerned with disease processes.

The professor will be appointed until age 65. He/she will also be appointed head of department for an initial term which would be determined by the University after consultation with the professor.

The appointee will be responsible for the research work in the department and will be expected to contribute to this research through his/her own work in experimental pathology.

CLOSING DATE: 15 June 1977 for both positions.

Salaries: Normal salary for both posts is \$31,584 per annum Australian currency, plus for the professor of clinical science, a clinical loading of \$5,000 per annum. There is entitlement to 1 year's study leave on full pay plus a grant of up to \$3,840 toward expenses within each 4-year period. Current exchange rates A\$1 : 63NP : US\$1.09.

Other conditions: Departments in the John Curtin School usually have about 10 academic staff and are involved solely in research and postgraduate (Ph.D. and postdoctoral) training. Members of staff are not required to participate in undergraduate teaching.

Reasonable travel expenses are paid and assistance with housing is provided for an appointee from outside Canberra. Superannuation is available.

The University reserves the right not to make an appointment or to make an appointment by invitation at any time.

Further information can be obtained from the **Director of the School (Professor F. Gibson, John Curtin School of Medical Research, P.O. Box 334, Canberra City, ACT, 2601 Australia)**. Applications close with the undersigned on 15 June 1977.

**G. E. Dicker
Academic Registrar
P.O. Box 4
Canberra, ACT, 2600
Australia**

TOXICOLOGISTS

The Chemical Hygiene Fellowship of Carnegie-Mellon Institute of Research is in the initial stages of a major laboratory expansion. This industry-sponsored laboratory, now in its 40th year of operation, is located 20 miles east of Pittsburgh near the Laurel Highlands of southwestern Pennsylvania.

Continued growth of our multidisciplinary research program is creating several positions for professionals having a PhD or equivalent in toxicology, pharmacology, physiology or a related discipline in biological sciences, or a DVM with strong interests in toxicological studies with laboratory animals. Our requirements range from relatively new PhDs or DVMs to more seasoned professionals with 10 years experience or more and with capability of assuming management functions.

Primary responsibilities will include the design, conduct, interpretation and overall supervision of toxicological studies using a variety of laboratory animals. Additional functions include participation in research projects with other professionals in toxicology, pathology, biochemistry, metabolism and cell biology.

Outstanding fringe benefits, modern facilities and opportunities for professional growth make this an exceptional opportunity.

Please submit resume and salary requirements, in confidence, to: A. R. Ryrholm, Carnegie-Mellon Institute of Research, 4400 Fifth Avenue, Pittsburgh, PA 15213.

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VETERINARY PATHOLOGIST

The National Cancer Institute is seeking several veterinary pathologists for career Civil Service positions in the Bioassay Program. They will be responsible for providing expertise in pathology for the evaluation of experimental design of long-term carcinogenesis studies and for development of standards of pathology for the evaluation and interpretation of carcinogenic effects in these studies. The positions involve monitoring and evaluating pathology efforts in carcinogenesis studies at various laboratories. Opportunities for collaborative research within the Institute are available. Starting salary will be based upon training and experience and will range from \$24,308-\$31,598 (GS-13) to \$28,725-\$37,347 (GS-14). Board certification in veterinary pathology is desired. Experience in laboratory animal pathology is required and experience in toxicologic or experimental pathology with emphasis on carcinogenesis is desirable.

Please submit Standard Form 171 by May 20, 1977 to:

**Mrs. Yvonne DeWald
NCI Personnel Office
NATIONAL INSTITUTES
OF HEALTH
Public Health Service
Building 31, Room 3A37
9000 Rockville Pike
Bethesda, Md. 20014**

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POSITIONS OPEN

PHYSIOLOGIST-PHARMACOLOGIST. Ph.D. with evidence of postdoctorate teaching/research in areas of cellular physiology and/or pharmacology, toxicology, endocrinology. Undergraduate teaching in human physiology and/or pharmacology-toxicology. Tenure-track position; 11-month appointment; rank/salary commensurate with qualifications. Pharmacy baccalaureate desirable. *Equal Opportunity Employer.* Send curriculum vitae, publications list, and names of three references to: **Dr. M. H. Malone, Physiology-Pharmacology Unit, School of Pharmacy, University of the Pacific, Stockton, Calif. 95211.**

PSYCHOBIOLOGIST

Postdoctoral position available in interdisciplinary program on biochemical correlates of behavior. Opportunity to interact with active neuroscience research program. Send inquiries, curriculum vitae, and names of three references to **Dr. B. W. Agranoff, Neuroscience Laboratory Building, 1103 East Huron, Ann Arbor, Michigan 48109.**

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RESEARCH BIOCHEMIST to study the effects of alcohol on nerve and muscle. Applicant should have at least 3 years of postdoctoral experience, preferably in the field of alcohol research. This is an interdisciplinary project in an academic setting with good potential for growth. Please send curriculum vitae, bibliography, and summary of career goals to:

**Theodore L. Munsat, M.D., Professor and Chairman
Department of Neurology
Tufts-New England Medical Center
171 Harrison Avenue
Boston, Massachusetts 02111**

WILDLIFE BIOLOGIST, FOREST ECOLOGIST (two positions)—The Faculty of Natural Sciences and Mathematics, Stockton State College, is seeking to fill the above two positions at the instructor or assistant professor level. In addition to intermediate and advanced level courses in the areas named, between them the two positions will be responsible for courses in general ecology, plant ecology, dendrology, soils, and introductory biology (cell and molecular and organismal biology). Candidates with a knowledge of management practices in their respective fields will be highly preferred. Detailed description available from **Dean Philip Nanzetta, Faculty of Natural Sciences and Mathematics, Stockton State College, Pomona, N.J. 08240.** *Affirmative Action/Equal Opportunity Employer.*

PROGRAMS

MARINE BIOLOGICAL LABORATORY (MBL)
Woods Hole, Massachusetts 02543
offers

A YEAR IN SCIENCE AT THE MBL
Summer 1977; Fall 1977; Spring 1978

The Marine Biological Laboratory offers year-round opportunities for independent study and research in biology to advanced undergraduates and graduate students. Students will have the opportunity to participate in various research programs, courses, and seminars offered throughout the year at the MBL, and at the several research institutions in Woods Hole. Individual programs will be arranged with advice of staff of the Laboratory in consultation with other members of the Woods Hole academic community. Preference will be given to students enrolled in degree-granting institutions. Staff includes George M. Woodwell, Daniel B. Botkin, John E. Hobbie, Bruce J. Peterson, and Jerry Melillo of The Ecosystems Center; Daniel Alkon of the NIH Program in Neurophysiology and Behavior; Edward F. MacNichol, Director of the Laboratory of Sensory Physiology; other scientists at the MBL.

Summer semester: 6 June to 26 August 1977
Fall semester: 26 September to 16 December 1977

Spring semester: 6 February to 28 April 1978

Limited scholarship funds are available. For further information and application forms write to **Admissions Office, Marine Biological Laboratory, Woods Hole, Mass. 02543.** Deadlines for application are: summer—1 May; fall—1 July; spring—1 November.

COURSES

ELECTRON MICROSCOPY

SCANNING AND TRANSMISSION ELECTRON MICROSCOPY, 6 to 17 June. The lectures and laboratories are designed to introduce the participant to the theoretical and practical aspects of both SEM and TEM and the associated techniques. Enrollment is limited to permit maximum individualized and "hands-on" instruction. Tuition: \$450. For further information and application form write or call: **Dr. B. L. Redmond, Department of Biology, State University of New York, New Paltz, N.Y. 12561.** Telephone: 914-257-2549 or 2175.

FELLOWSHIPS

HYPERTENSION RESEARCH FELLOWSHIPS. Fellowships in hypertension research for 2 years, with option of 1 additional year of clinical training for qualified applicants, are available at the Mayo Clinic and Mayo Graduate School of Medicine beginning July 1977. This NIH funded multidisciplinary program provides research training in hypertension by faculty in nephrology, endocrinology, cardiovascular, clinical pharmacology, pediatrics, biochemistry, and physiology. Applicants should have the M.D. or Ph.D. degree. Degree programs leading to the masters or Ph.D. degrees are available. For further information write to **R. D. Brown, M.D., Director, Multidisciplinary Hypertension Research Training Program, Mayo Clinic, Rochester, Minn. 55901.** *An Equal Opportunity/Affirmative Action Institution.*

FELLOWSHIPS—MICROBIOLOGY DEPARTMENT of the Biomedical Sciences Doctoral Program. Three doctoral and postdoctoral fellowships are available for candidates seeking training in a program emphasizing the molecular biological aspects of microbiology. The goal of the program is to train scientists who will have a broad educational background in the biomedical sciences with research interest in any of the following areas: virology, bacterial genetics or metabolism, cell biology, nucleic acid biochemistry, mechanisms of chemical carcinogenesis or immunology. Eligibility is limited to U.S. citizens and permanent residents. Applicants should arrange to send academic transcripts, G.R.E. scores, two letters of recommendation, and a personal statement describing educational background and research interest to:

**Dr. Anthony J. Garrow
Department of Microbiology
MOUNT SINAI SCHOOL OF MEDICINE
100th Street and Fifth Avenue
New York, N.Y. 10029**
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POST DOCTORAL FELLOWSHIPS

One appointment emphasizes training and interests in the biochemistry and physiology of prostaglandins, including their isolation and assay methodology for activity and identification.

The other fellowship requires broad training in gastrointestinal physiology or pharmacology and a background that includes immunology.

For further information and consideration, please direct a résumé of your qualifications to: **Manager, Research Personnel, Schering-Plough Corporation, 60 Orange Street, Bloomfield, New Jersey 07003.**

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FELLOWSHIPS

FELLOWSHIPS. Postdoctoral training program in Clinical Pharmacology, Michigan State University Medical Center for individuals with an M.D. degree or equivalent who are U.S. citizens or permanent residents. Individuals with a Ph.D. degree in a scientific discipline relevant to clinical pharmacology will also be considered. Send curriculum vitae to **Andrew M. Michelakis, M.D., Ph.D., Director, Clinical Pharmacology Program, Life Sciences Building, Michigan State University Medical Center, East Lansing, Michigan 48824.**

POSTDOCTORAL FELLOWSHIP available immediately in mammalian epithelial electrophysiology. Familiarity with intracellular recording techniques desirable. Send curriculum vitae and names of three references to **Stephen D. Klyce, Ph.D., Division of Ophthalmology, Stanford Medical School, Stanford, California 94305.**

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MARKET PLACE

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L-[1-¹⁴C] ORNITHINE 40-60mCi/mmol

This new product is ideally suited to measure L-ornithine decarboxylase, the initial enzyme in polyamine biosynthesis.⁽¹⁾ The enzyme activity is pyridoxal-5'-phosphate dependent, and can be used as a measurement of vitamin B₆ levels in a variety of tissues and body fluids.⁽²⁾

1. Russell, D.H., and S. Snyder, *PNAS*, **60**, 1420 (1968).

2. Harris, R.S., in *The Vitamins*, 2, W.H. Sebrell, Ed., Academic Press, New York, 1-116 (1968).

Ornithine, L-[1-¹⁴C]- 40-60mCi/mmol
0.01N HCl solution.

NEC-710 \$54/10 μ Ci \$140/50 μ Ci



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Customer Service 617-482-9595

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It's not just another Methionine-³H

70-85Ci/mmol

Highest specific activity available

For aspects of protein synthesis requiring a high specific activity label.

Methionine, L-[methyl-³H]- 70-85Ci/mmol

Ethanol:water solution, 7:3, shipped in dry ice.

NET-016X \$30/250 μ Ci \$72/1mCi \$170/5mCi

Also:

Adenosyl-L-methionine, S-[methyl-³H]- 55-70Ci/mmol

NET-155H

Caution: Not for use in humans or clinical diagnosis.



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Iodosulfanilic Acid [¹²⁵I]

Labeling Kit

High specific activity agent labels only cell membrane surface proteins. This new iodination agent, when diazotized, does not enter the cell interior, and labels only outer membrane proteins. It may also be useful in fractionation of subcellular particulates and studies designed to follow the fate of autologous viable cells *in vivo*.

Iodosulfanilic acid [¹²⁵I] Labeling Kit

(including reagents for diazotization)

> 1000Ci/mmol

n-Propanol:water solution, 1:1, in Combi-vial

NEX-121 \$124/1mCi \$194/2mCi \$351/5mCi

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Bolton-Hunter Reagent [¹²⁵I]

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~1500Ci/mmol, ~4000Ci/mmol. The Bolton-Hunter Reagent is now widely used to circumvent the difficulties associated with iodination of labile antigens and polypeptides. Conjugation of the iodinated ester to terminal or lysine amino groups is accomplished with minimal manipulation and under extremely mild conditions.

Bolton-Hunter Reagent [¹²⁵I]

(In benzene solution in Combi-V-Vial)

~1500Ci/mmol Prepared fresh weekly.

NEX-120 \$162/1mCi \$81 ea. add. mCi

~4000Ci/mmol Prepared every two weeks.

NEX-120H \$162/1mCi \$81 ea. add. mCi

Not for use in humans or clinical diagnosis



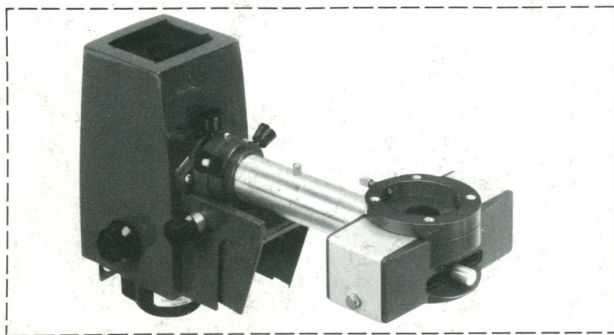
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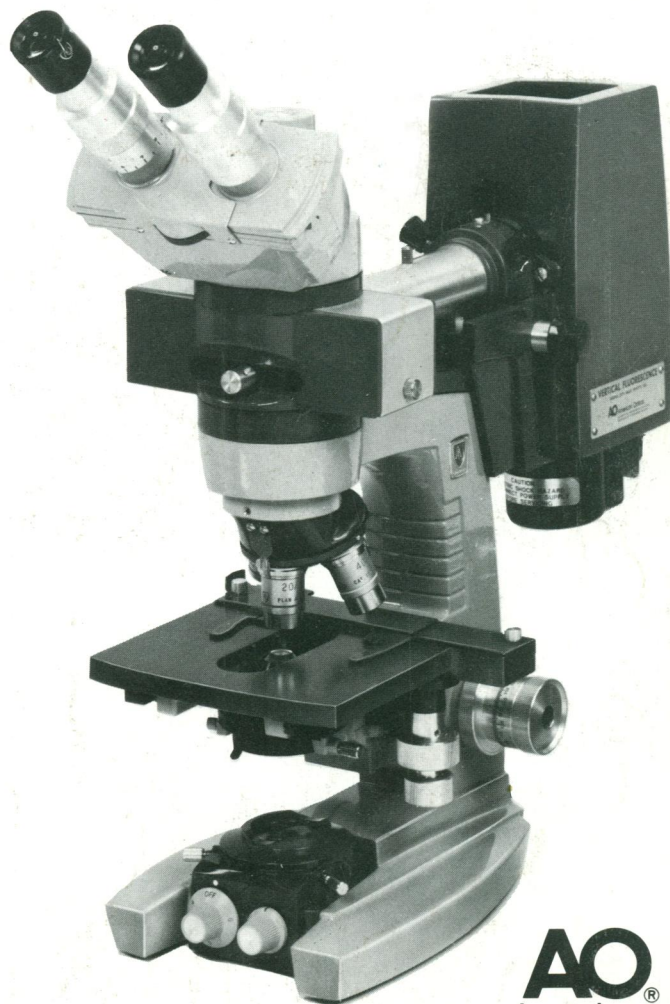
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