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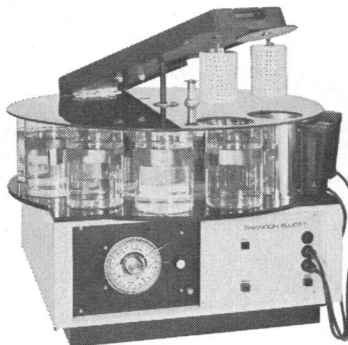
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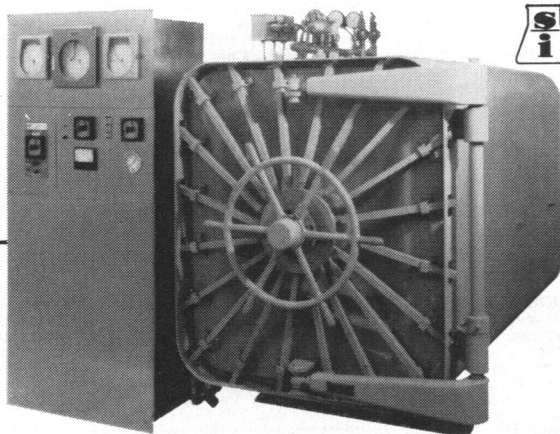
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BLIND AD replies should be addressed as follows:

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POSITIONS WANTED

Analytical Chemist. M.S. 1972. Good background in A.A., G.C., and electrochemistry. Experienced in chemical oceanography and shipboard procedures. Seeking position in marine science or environmental chemistry. Location open; foreign or United States. No agencies. Box 194, **SCIENCE**. X

Behaviorist-Neurobiologist. Ph.D. August 1975. Teaching/research position. Dissertation: reptilian electrical brain stimulation. Teach: general biology, behavior, anatomy and physiology, vertebrate and invertebrate zoology. Box 195, **SCIENCE**. X

Biostatistician. M.S. statistics; M.S. zoology (aquatic ecology). Consulting and research experience. Fortran. Prefers to design and analyze applied environmental research. G. Brauer, Statistics Department, University of Wisconsin, Madison, Wis. 53706. X

Clinical Biochemist. Ph.D. Sixteen years of experience including design, organization, and direction of laboratories in community hospitals; university medical center and government health agency; planning and conducting training/research in medical technology and doctoral programs. Automation, microchemistry, and nutritional clinical chemistry. Publications. Desires position in active laboratory with research/development opportunities. Box 196, **SCIENCE**. 5/9

Developmental Physiologist. Ph.D. Teaching experience in vertebrate and invertebrate physiology and endocrinology; research interests in control of cell death, turnover, and metamorphosis; numerous publications. Seeks teaching/research position. Box 197, **SCIENCE**. X

Psychologist. Senior Technician. M.A. in psychology. Ten years of research experience. Areas of specialization include physiological and developmental psychology, CNS pharmacology, and psychopharmacology. Seeking position in research, industry, or government. V. F. Hayhurst, GRC, Baltimore City Hospitals, Baltimore, Md. 21224. X

POSITIONS WANTED

Microbiologist. Ph.D. Basic and applied research, microbial ecology, microbial physiology, aquatic microbiology, university-consulting background. Desires position in energy-related research. Box 187, **SCIENCE**. 4/18, 25

Regulatory Affairs Manager. Ph.D. Successful experience in IND's, NDA's, clinical and safety testing, FDA liaison, organic chemistry, microbiology. Box 198, **SCIENCE**. X

POSITIONS OPEN

ASSISTANT PROFESSOR. M.D. or Ph.D. to take part in a project pursued in the Department of Physiology in cooperation with the hematology section of the Department of Medicine to apply modern physiological and biochemical methods to the investigation of the membrane characteristics of normal and abnormal red blood cells. M.D. applicants should have completed clinical training in order to undertake clinical responsibilities in the hematology section. All applicants must have a strong background and interest in the metabolic and physiological properties of red cells. Starting date negotiable. Send curriculum vitae and names of persons who may be requested to supply references to **Department of Physiology, Yale University, 333 Cedar Street, New Haven, Conn. 06510**.

Applications from women and members of minority groups are encouraged.

Applications are invited for two positions at the **ASSISTANT PROFESSOR** level in the Department of Biochemistry and Molecular Biology of Harvard University. Preference will be given to candidates whose research is in the areas of the molecular biology of animal viruses or cell surfaces. Candidates should have demonstrated the capacity to do exceptional, independent research. *Applications from women and minorities are encouraged.* Candidate should submit curriculum vitae including a list of publications, a few recent reprints, a short description of future research plans; in addition, three letters of recommendation should be sent to: **Ms. Thelma Shapiro, Administrative Assistant, Department of Biochemistry and Molecular Biology, Harvard University, 5 Divinity Avenue, Cambridge, Massachusetts 02138. Harvard University is an Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR

Behavioral and Biochemical Pharmacology. Extensive experience in neurochemical techniques related to measurement of catecholamine metabolism, serotonin, and acetylcholine in the brain. Please send curriculum vitae to: **Dr. S. D. Glick, Department of Pharmacology, The Mount Sinai Medical Center, 100 Street at Fifth Avenue, New York, N.Y. An Equal Opportunity Employer.**

ASSISTANT PROFESSOR, ANIMAL PHYSIOLOGY (September 1975.) Duties: teaching human physiology to paramedical students, developing research and teaching in specialty, and directing graduate students. Facilities: animal and aquarium rooms, EM, nearby marine station. Qualifications: Ph.D., laboratory experience with various vertebrate systems, experience in teaching introductory physiology desirable. Salary: about \$12,500. Send résumés and three references to **F. D. Crisley, Chairman, Biology Department, Northeastern University, Boston, Mass. 02115**.

ASSISTANT PROFESSOR—BIOCHEMISTRY

A position is currently available for an individual with demonstrated exceptional ability in the area of enzymology and the desire and flexibility to interact with a multidisciplinary medical science and clinical faculty. Send curriculum vitae and names of three references to **L. E. Maroun, Ph.D., Acting Director, Division of Cell Biology/Biochemistry, Southern Illinois University School of Medicine, 707 North Rutledge Street, Springfield, Illinois 62708. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR OF BIOLOGICAL CHEMISTRY

Department of Dermatology, The University of Michigan Medical School. Assistant Professor of Biochemistry in Dermatology wanted to begin 1 July 1975, to work as a member of a team on the molecular biology of cell proliferation in skin. Send résumé to **Box 201, SCIENCE. A Nondiscriminatory Affirmative Action Employer.**

POSITIONS OPEN

ASSISTANT PROFESSOR FOR CLINICAL PHARMACOLOGY

Candidate must be Board eligible or certified in internal medicine and have a strong commitment to teaching and research. Send curriculum vitae to: **Melvin H. VanWoert, M.D., Department of Pharmacology, Mount Sinai School of Medicine, Fifth Ave. and 100th Street, New York, N.Y. 10029. An Equal Opportunity Employer.**

ASSISTANT PROFESSOR NEUROCYTOLOGIST

Ph.D. or M.D. to develop graduate programs and teach with medical neuroanatomy team. Prefer postdoctoral experience in fine structure and/or development. *Applications from women and minority groups especially welcome.* Submit curriculum vitae and letters of recommendation to **D. E. Kelly, Department of Anatomy, University of Southern California, Los Angeles, California 90033.**

An Equal Opportunity Employer

Opening for **ASSISTANT PROFESSOR OF PATHOLOGY**, Board certified eligible in Anatomic Pathology. Teaching and research responsibilities also required. All candidates will be reviewed without regard to race, color, creed, or sex. *University of California is an Equal Opportunity Employer.* Send résumé to: **Julien L. Van Lancker, M.D., Professor and Chairman, Department of Pathology, University of California, Los Angeles, Calif. 90024.**

AVIAN BIOLOGIST

The Department of Avian Science, University of California, invites applications for an avian biologist at the Assistant Professor level. The candidate should have a background in general avian biology with a Ph.D. in one of the following: developmental biology, genetics, nutrition, physiology, or a closely related field. Teaching duties involve courses in general avian biology and in the area of the candidate's specialization. The development of a strong program in disciplinary research with one or more avian species (including nondomesticated birds) is desired. Applications will be accepted until 30 May 1975. Late applications may not be considered. Please submit application, curriculum vitae, and three letters of reference to **Dr. Frank X. Ogasawara, Department of Avian Sciences, University of California, Davis, Calif. 95616. An Equal Opportunity/Affirmative Action Employer.**

DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF BRITISH COLUMBIA

Applications are invited for the position of assistant professor, male or female, available September 1975. This position is open to individuals with Ph.D. or M.D. degree and preferably with some postdoctoral research and teaching experience. An interest in teaching undergraduate students in science and professional fields, Medicine, Dentistry, Pharmacy, as well as graduate students is essential. The successful applicant will be expected to maintain an active research program. Send complete curriculum vitae, reprints, outline of research interests, and names of three referees to: **Chairman, Department of Biochemistry, University of British Columbia, Vancouver, B.C., Canada, V6T 1W5.**

Southern Illinois University at Edwardsville School of Dental Medicine invites applications for a 1-year replacement faculty position in the Department of Biochemistry. This position is a term appointment available 1 July 1975 and will terminate 30 June 1976.

A Ph.D. in Biochemistry is required and postdoctoral training is desirable. The appointment would be at the research associate or instructor level. Applications will be received until 23 May 1975. *The University is an Equal Opportunity Employer. Applications from women and minorities are encouraged.*

Send curriculum vitae to **Dr. Stanley P. Hazen, Dean, Southern Illinois University, School of Dental Medicine, Edwardsville, Illinois 62025.**

CHAIRPERSON

The Division of Science-Mathematics, Abraham Baldwin Agricultural College, is accepting applications for the position of chairperson. Candidates must hold an earned Ph.D. or equivalent degree in the field of Science or Mathematics and 5 years of college teaching experience, preferably in a rural oriented college. Duties include administration and teaching. Direct inquiries to: **Frank H. Thomas, Abraham Baldwin Agricultural College, Tifton, Georgia 31794. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

ASSISTANT PROFESSOR PHARMACOLOGY

M.D. degree. Expert on computer technology and programming and trained in quantum mechanics. Please send curriculum vitae to: **Dr. Jack Peter Green, Department of Pharmacology, The Mount Sinai Medical Center, 100 Street at Fifth Ave., New York, N.Y. 10029.**

An Equal Opportunity Employer

ASSISTANT PROFESSORSHIPS (Two) PHYSICS. Associate with existing research program in Experimental Solid State Physics; teach undergraduate and graduate courses. Experience in magnetic resonance phenomena, magnetism, and superconductivity desired. Ph.D. in physics and postdoctoral experience required. Storrs Campus beginning September 1975. Second position at Stamford Branch campus, teaching introductory courses. Ph.D. in physics and interest in community oriented programs required. Résumés for first position to **Dr. Joseph I. Budnick, Physics Department, University of Connecticut, Storrs, Conn. 06268.** Résumés for second position to **Director, University of Connecticut at Stamford, Schofieldtown Road, Stamford, Conn. 06903.** *An Equal Opportunity Employer.*

ASSOCIATE

The Department of Natural Science, Florida State Museum, has an opening for an Associate, 1 June 1975. The position is nontenure accruing, appointment annual, minimum salary \$10,000. A Master's degree in biology is required, and special interest and training in museum ornithology and/or avian bioacoustics preferred. Closing date is 20 April. Send application and letters of recommendation to **Dr. J. W. Hardy, Department of Natural Science, Florida State Museum, University of Florida, Gainesville 32611.** *An Equal Opportunity/Affirmative Action Employer.*

BIOLOGY INSTRUCTOR. August 1975. M.S. required. Strong background in microbiology preferred. Principle duties to consist of setting up and conducting general biology laboratories with a possibility of teaching microbiology and related courses. Send résumé to: **Dr. Don B. Weser, Coordinator, Division of Physical and Biological Sciences, University of South Carolina at Sumter, Sumter, South Carolina 29150.** *We encourage minority and female applicants to contact us as we have an Equal Opportunity/Affirmative Action Program.*

BIOMEDICAL RESEARCH IN IRAN

Plans are being made for the establishment in the next few years of a new institute for fundamental research in the biomedical sciences in Iran. The senior professional staff members will carry out research programs of their own choosing. They will be responsible for training junior postdoctoral colleagues in the institute, but will not have routine teaching responsibilities for undergraduate or medical students.

Openings may be available for senior and junior professional staff members and for postdoctoral appointments. Candidates with the Ph.D. and/or M.D. degree and with experience in research are invited to apply as soon as possible. Please forward curriculum vitae and list of publications, and describe areas of research interest.

All replies held in strict confidence by major private U.S. university. **Box 199 SCIENCE.**

DEVELOPMENTAL BIOLOGIST

Opening available in Department of Anatomy for a Developmental Biologist with postdoctoral experience in research and teaching. Must be able to teach effectively and develop an active and productive independent research program. Responsibilities include participation in teaching embryology, histology, and gross anatomy to medical, dental, and graduate students in an integrated curriculum. Research specialties of particular interest include cell surface interactions underlying morphogenetic phenomena, cell to cell communication, and organelle assembly, utilizing both morphological and biochemical approaches. Rank and salary dependent on qualifications. *Applications from women and members of minority groups are welcomed.* Apply to: **Dr. S. J. Cooperstein, Professor and Head, Department of Anatomy, University of Connecticut, Health Center, Farmington, Conn. 06032.**

GEOLOGIST

Assistant professor position opening for fall 1975 for one of the following fields. Sedimentologist or geological physics. Ph.D. required, and postdoctoral experience desirable. Candidates should have strong background in relevant basic sciences and capability for quantitative research. Send a résumé, statement of research and teaching objectives, and three letters of recommendation to **D. M. Ragan, Department of Geology, Arizona State University, Tempe, Arizona 85281.** *ASU is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

DEVELOPMENTAL BIOLOGISTS

Two positions are open at the rank of Assistant Professor. One position is for a person with research interests in molecular or genetic aspects of the regulation of development, especially as related to the processes of determination, cytodifferentiation, or specific gene expression. The second vacancy is for a developmental neurobiologist or other person concerned with the control of spatial organization or patterning during development. Postdoctoral experience would be desirable.

Candidates with promise of excellence in both research and teaching should send curriculum vitae and names of three references to: **Malcolm S. Steinberg, Search Committee, Department of Biology, Princeton University, Princeton, N.J. 08540.** *Princeton University is an Equal Opportunity/Affirmative Action Employer.*

DIRECTOR, COMPUTING CENTER

Reporting to Executive Vice President, the Director of the Computing Center is responsible for planning, directing, and controlling the operation of the center which provides computing service to meet the research, instructional, and administrative needs of the University Center.

The Director leads staff of 35 to 40 professional and Civil Service personnel and administers an annual budget that approaches \$1.5 million in operating a large third-generation computer with a full complement of peripheral equipment and utilizing a broad range of computing languages.

A candidate is sought for immediate appointment who has extensive data processing experience including several years in an upper management position. An advanced degree is desirable. An appointment in an academic department may also be granted.

Letters of application, salary requirements, three references who may be contacted, and a curriculum vitae should be sent to: **Mr. Joseph J. McConkey, Assistant Executive Vice President and Chairman of the Search Committee, State University of New York at Stony Brook, Stony Brook, New York 11794.** *An Equal Opportunity/Affirmative Action Employer.*

Two Positions: New **FACULTY APPOINTMENTS** for September 1975, are anticipated for a **ZOOLOGIST** and **MICROBIOLOGIST**. Subject to approval by Secretary of Education. Applicants are invited for the position of Instructor or Assistant Professor of Biology. Consideration will be given to candidates with earned doctorate, and a commitment to teaching excellence. Immediate responsibilities in Zoology include the teaching of Vertebrate Zoology (fall) and assisting in General Zoology laboratories. In microbiology, emphasis will be on Medical Microbiology, Immunology, and assisting in lower level Biology courses. For either individual, a background in radiation biology would be attractive. Salary is highly competitive and commensurate with preparation and experience. Send curriculum vitae and three letters of reference to: **Dr. C. L. Himes, Chairman, Department of Biology, Bloomsburg State College, Bloomsburg, Pennsylvania 17815.** Application deadline 31 May 1975. *An Affirmative Action/Equal Opportunity Employer.*

GEOCHEMIST/GEOCHRONOLOGIST

The Geology Department of Brooklyn College, City University of New York, has an opening for an individual whose primary research responsibility will be potassium-argon geochronology and who has a strong commitment to undergraduate teaching. Research equipment includes an M.S. 10 mass spectrometer for gas work and a solid source mass spectrometer. Position is as Assistant Professor and a Ph.D. is required. Send curriculum vitae promptly to **Chairman, Department of Geology, Brooklyn College, Brooklyn, N.Y. 11210.** *Brooklyn College is an Affirmative Action/Equal Opportunity Employer.*

HISTOLOGIST

A vacancy exists at the Faculty of Medicine, Memorial University of Newfoundland, for a **Histologist** in this nondepartmental medical school. The successful candidate will be responsible for establishing a course of study in histology for first-year medical students and will also be expected to teach in other parts of the curriculum.

Applicants should have an active research interest and should preferably be able to interact with others in one of the following research areas: (i) membrane studies, (ii) microbial, molecular, or cytogenetics, (iii) immunology, (iv) growth, development, and their regulation, (v) neurosciences, (vi) cardiovascular studies.

Rank and salary commensurate with experience. Applications will be received together with a curriculum vitae and names of three referees by **Dr. J. S. Campbell, Chairman, Histology Search Committee, Memorial University of Newfoundland, St. John's, Newfoundland A1C 5S7, Canada.**

POSITIONS OPEN

DIRECTOR OF THE JOHN F. KENNEDY INSTITUTE FOR REHABILITATION OF THE MENTALLY AND PHYSICALLY HANDICAPPED CHILD

Baltimore

This special pediatric hospital is the setting for an interdisciplinary program of training, service, and research for the developmentally disabled. The Institute is adjacent to and closely associated with The Johns Hopkins Hospital and The Johns Hopkins University School of Medicine, at which the Director will hold an academic appointment in the Department of Pediatrics. The Institute has an inpatient service with a 40-bed capacity and more than 9000 ambulatory visits annually. Separate divisions include child development, genetics laboratory, hearing and speech, nursing, occupational therapy, pediatric dentistry, pediatric psychiatric, physical therapy, psychological testing, psychology, social service, special education, and clinical services. The Search Committee will be receiving applications until 1 June 1975. If interested address correspondence to:

**Dr. John W. Littlefield, Chairman
Department of Pediatrics
Johns Hopkins Hospital
601 North Broadway
Baltimore, Maryland 21205**

An Equal Opportunity/Affirmative Action Employer

FACULTY POSITIONS IN MEDICAL INFORMATION SCIENCE

The University of California, San Francisco, is seeking applicants for positions in its Graduate Program in Medical Information Science. Positions will be available after 1 May 1975. One appointment will be made at the Assistant or Associate Professor level, depending upon the applicant's qualifications and background, and will require the M.D. degree with additional experience or training in computer applications in medicine, particularly in record-keeping, health services research, communications, or natural language processing. Previous clinical experience preferred.

Another vacancy exists for an Assistant Professor. Ph.D. in Computer Science (or equivalent) is required and experience or interest in software engineering, data base management, artificial intelligence, or natural language processing is preferred. Previous experience in medical or health care applications is essential. Teaching and research will be equally involved in both positions.

Applicants should send their curriculum vitae and list of publications to **Dr. M. S. Blois, Medical Information Science, Room A-16, University of California, San Francisco, California 94143.** *An Equal Opportunity/Affirmative Action Employer.*

Cancer Immunochemist

Bright, imaginative investigator required to plan and direct studies concerned with the identification, isolation and characterization of agents that interfere with carcinogenesis through their influence on the Immune System. Candidate should have research experience in chemical isolation and analysis. Preference will be given to a candidate with background in Chemical Carcinogenesis.

Well-equipped laboratory facilities, an extensive scientific library, a large experimental animal farm, and professional computer support are available.

Successful candidates will be offered competitive salary, attractive Company benefits and relocation expenses.

Applications and complete resumes may be addressed to:

**Mr. Donzel Loker, Personnel Manager
LITTON BIONETICS, INC.
Frederick Cancer Research Center
Post Office Box B
Frederick, Maryland 21701**

An Equal Opportunity Employer, M/F.

POSITIONS OPEN

IMMUNOLOGY-MOLECULAR BIOLOGY

Postdoctoral position available. Applicants holding Ph.D. with training in subcellular aspects of antibody synthesis, nucleic acid hybridization, and/or cell free protein synthesis should send curriculum vitae, bibliography, and three letters of recommendation to: **Dr. U. Storb, Department of Microbiology, University of Washington, Seattle, Washington 98195. An Equal Opportunity Employer.**

KEAN COLLEGE is seeking two innovative teachers with primary competence in

- 1) **IMMUNOLOGY-VIROLOGY**
- 2) **HISTOLOGY-BIOTECHNIQUES**

Ph.D. required. Direct résumé to:

**Dr. D. B. Linden, Chairman
Department of Biology
Kean College of New Jersey
Union, New Jersey 07083**

An Equal Opportunity Employer

MARINE SCIENCE. Director of Program. Rank commensurate with qualifications and experience. Ph.D. required. Candidate should be qualified in Marine Science. Responsibilities will be primarily administration and research. Send curriculum vitae to **Dr. Daniel B. Plyler, Assistant Vice Chancellor for Academic Affairs, University of North Carolina at Wilmington, P.O. Box 3725, Wilmington, North Carolina 28401.** Deadline for receipt of applications is 1 June 1975. *An Equal Opportunity/Affirmative Action Employer.*

MARINE ZOOPLANKTON BIOLOGIST (Ph.D.) to supervise a zooplankton-phytoplankton staff and carry out research in estuarine-, environmental-, and pollution-related studies. Send résumé to

**Dr. H. Adair Fehlmann
Harbor Branch Foundation, Inc.
RFD 1
Box 196
Fort Pierce, Florida 33450**

An Equal Opportunity Employer

MASS SPECTROSCOPIST—RICE UNIVERSITY

The Biochemistry Department announces the availability of a position for an experienced person in operation of a GLC-mass spectrometer (LKB-9000). Additional experience in IR and general spectroscopy desirable. Position open 1 June. Interested applicants should send complete résumé in confidence to **G. J. Schroepfer, Jr., Chairman, Biochemistry Department, Rice University, Houston, Texas 77001. An Equal Opportunity/Affirmative Action Employer.**

MICROBIOLOGIST OR IMMUNOLOGIST

Assistant Professor. Requirements: Ph.D. or M.D. and at least 1 year of postdoctorate training. Must be capable of teaching either the medical or general aspects of a two-semester course in microbiology. Please send curriculum vitae and names of three references to: **Dr. J. R. Campbell, Professor and Head, Department of Microbiology, University of British Columbia, Vancouver, British Columbia, V6T 1W5 Canada.**

NEUROPHYSIOLOGIST—SENSORY

Assistant, Associate, or Full Professor, Purdue University, for appointment in August 1975. Single-unit research commitment preferred. Excellent laboratory facilities and equipment are available for both teaching and research. Candidate should have grant support, desire to participate in the interdisciplinary Psychobiology-Neurobiology Program. Modest graduate and undergraduate teaching load. Salary is open. Send curriculum vitae to **Dr. J. C. Naylor, Head, Department of Psychological Sciences, Purdue University, West Lafayette, Indiana 47907. An Equal Opportunity/Affirmative Action Employer.**

QUEEN'S UNIVERSITY KINGSTON, ONTARIO, CANADA DEPARTMENT OF PHYSIOLOGY

NEUROPHYSIOLOGIST applications are invited from mammalian physiologists with the Ph.D. and/or the M.D. degree for appointment to a faculty position as Assistant Professor. Applicants should have an interest in sensory/motor physiology, proven research ability, and teaching experience at undergraduate and graduate levels. Applications to **Dr. V. C. Abrahams, Chairman, Selection Committee, Department of Physiology, Queen's University, Kingston, Ontario, Canada K7L 3N6,** should include curriculum vitae and names of three referees.

POSITIONS OPEN

NUCLEIC ACIDS

New England company seeks qualified Ph.D. applicants for the following research and development positions:

- 1) **BIOCHEMIST**—Experienced in nucleic acid enzymology, especially synthesis and characterization of polynucleotides.
- 2) **ORGANIC CHEMIST**—Preferably experienced in synthesis of oligonucleotides.

Please send résumé and names of references to **Box 200, SCIENCE.**

ORGANIC CHEMIST. Equivalent for postdoctoral position of up to 2 years' duration in interdisciplinary nuclear medicine research program. Involves synthesis of new radiopharmaceuticals incorporating nuclides of short, half-life, study of decay mechanisms in these compounds, basic biological and biochemical reactions, and their use in tissue imaging and metabolic studies. Candidate must be imaginative, energetic and possess the ability to work within a diversified group. Experience with radioisotopes helpful but not required. Send complete résumé to **Dr. Alfred P. Wolf, Chemistry Department, Brookhaven National Laboratory, Associated Universities Inc., Upton, L.I., N.Y. 11973. An Equal Opportunity Employer M/F.**

PHARMACOKINETIST

Pharmacokineticist (Ph.D.) with computer experience and solid background in clinical as well as animal studies needed for active clinical pharmacology group. Send résumé to **Dr. Daniel L. Azarnoff, University of Kansas Medical Center, Kansas City, Kans. 66103.**

The Assembly of Life Sciences of the National Research Council—National Academy of Sciences, seeks a **PHYSICIAN** at a competitive salary for an 18-month appointment as a Staff Officer in the conduct of an effort to evaluate the biomedical research and development program of a major federal agency.

Areas in which experience is desirable include biomedical research; administration/management of biomedical research programs; and survey research, including study design and execution, data collection analysis and editing, interpretation of findings and report writing.

Responsibilities will be in support of an NAS/NRC committee and subcommittees undertaking the above evaluation. An interest in problems of public policy as they relate to science and technology would also be useful. Applicants should send their résumés to **Dr. Artemis P. Sinopoulos, Division of Medical Sciences, Assembly of Life Sciences, National Research Council—National Academy of Sciences, 2101 Constitution Avenue, NW, Washington, D.C. 20418. The National Academy of Sciences is an Equal Opportunity Employer.**

PHYSIOLOGIST

Applications are being accepted for two positions for Assistant Professor of Physiology; applicants qualified for appointment at the opening levels will be given preference. Applicants must have a Ph.D. with training in physiology. Applicants with a strong training in systemic physiology with the capability of teaching cell physiology or renal physiology will be given preference. Research responsibilities of these positions depend upon the interests of the appointees and can be in any area of physiology.

Applications should be submitted by 1 June 1975. Those received after that date cannot be assured of consideration. Applicants should submit a curriculum vitae, bibliography, and three letters of recommendation to: **Dr. V. E. Mendel, Chairman, Department of Animal Physiology, University of California, Davis 95616.**

The University of California is an Equal Opportunity and Affirmative Action employer and welcomes applications from women and members of minority groups.

POSTDOCTORAL POSITION available 1 July for Ph.D. or M.D. with experience in protein chemistry and/or cell biology. Research focus on plasma and nuclear membrane structure and function in normal and malignant cells. Send to:

**Dr. Robert E. Scott
Laboratory of Membrane Pathology
Department of Pathology and Anatomy
Mayo Clinic and Medical School
Rochester, Minn. 55901**

POSITIONS OPEN

The **International Laboratory for Research on Animal Diseases (ILRAD)** has scientific, postdoctoral, and Visiting Scientist positions immediately available in immunology, parasitology, biochemistry, immunochemistry, pathology, cell culture, and electron microscopy. ILRAD is sponsored by a consortium of donor agencies and will have an international scientific staff conducting research on various aspects of trypanosomiasis and East Coast fever. Persons with training and experience in areas appropriate to research on trypanosomiasis and East Coast fever are invited to inquire at the address given below and should provide a current curriculum vitae which includes name, age, citizenship, education, chronology of professional experience, and list of publications. **Dr. James B. Henson, Director, ILRAD, P.O. Box 47543, Nairobi, Kenya.**

POSTDOCTORAL APPOINTEE

Postdoctoral appointment available in the Center for Human Radiobiology as part of an ongoing research program in in vitro studies of human immune responses and their relation to oncogenesis.

The applicant should be familiar with tissue culture techniques and some of the more common immunological tests such as cell-mediated immunity, detection of sera antibodies, and antigenic stimulation of lymphocytes.

Position available immediately. Send résumé to **Ronald A. Johns, Professional Placement Department, Argonne National Laboratory, Department 100D, 9700 South Cass Avenue, Argonne, Illinois 60439. An equal opportunity employer M/F.**

POSTDOCTORAL/JR. FACULTY POSITIONS

Two available 1 July 1975 in cardiovascular, neurophysiology, or membrane biophysics. Thirty percent of time to be spent in participation in departmental teaching programs. Staff appointment as instructor. Stipend of \$10,000. Send curriculum vitae to: **Dr. Joel Michael, Acting Chairman, Department of Physiology, Rush Medical College, 1725 West Harrison Street, Chicago, Illinois 60612. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL MARINE MICROBIOLOGISTS

Isolation and characterization of bacteria from Alaskan Coastal Waters. Positions available 1 July 1975. Previous marine microbiology experience required. Involves extensive ship cruise time.

Send curriculum vitae and three letters of recommendation to: **Dr. Lois S. Cronholm, Department of Biology, University of Louisville, Louisville, Ky. 40208.**

An Equal Opportunity Employer; applications from women and minority groups are especially welcome.

POSTDOCTORAL POSITION. Postdoctoral position available, summer or fall of 1975, for research on adenylate cyclase in corpora lutea or mechanism of action of cyclic AMP on steroidogenesis. Salary \$10,000 to \$11,000. Duration 1½ to 2 years. Applications with curriculum vitae, naming three references, should be sent to: **Dr. J. M. Marsh, Department of Biochemistry, University of Miami, School of Medicine, P.O. Box 520875, Biscayne Annex, Miami, Florida 33152. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Immediate opening available for study of androgen receptors and mechanism of hormone action. Applicants should have a Ph.D. and experience in Endocrinology is preferred. Write **Dr. Patrick C. Walsh, Brady Urological Institute, Johns Hopkins Hospital, Baltimore, Md. 21205. An Equal Opportunity Employer.**

CHICAGO MEDICAL SCHOOL

invites applications and nominations for the position of Professor and Chairman, Department of Psychiatry. Candidates should be Board eligible in psychiatry with interests in education which would include the coordination of the residency and student programs. In addition, candidates should have a record of accomplishment in research and administration.

Applications and nominations should be accompanied by a curriculum vitae and submitted to: **Julian L. Berman, M.D., Chairman, Psychiatry Search Committee, University of Health Sciences/The Chicago Medical School, 2020 West Ogden, Chicago, Illinois 60612.**

The University of Health Sciences/The Chicago Medical School is an Affirmative Action Equal Opportunity Employer and welcomes applications from women and minority candidates.

Queensland Institute of Technology

QUOTE: V.33/75

HEAD OF GEOLOGY DEPARTMENT

Applications are invited for the Head of the newly-created Department of Geology within the School of Applied Science. The Department is responsible for a course leading to the degree of Bachelor of Applied Science.

Service teaching, in aspects of geology and allied subjects, is given to other degree students within the School of Applied Science and within the Engineering School.

Applicants should have appropriate qualifications and relevant teaching experience at tertiary level. Applications from candidates with interests in modern concepts of Applied Earth Science would be particularly welcome. The successful applicant is also likely to have had industrial and/or field experience.

SALARY: (Aust.) \$19,500 per annum.

Applications, including the names of three referees, should be forwarded to the Registrar before Saturday, 14 June 1975.

Further information can be obtained from The Registrar, Queensland Institute of Technology, P.O. Box 246, North Quay, Brisbane, Queensland, Australia, 4000.

DIRECTOR BIOTECHNOLOGY RESOURCES PROGRAM

The Public Health Service, National Institutes of Health, Division of Research Resources, Bethesda, Maryland, invites applications for the position of Health Scientist Administrator (Biomedical Sciences), GS-601-15, with salary range up to \$36,000 per annum, depending on experience. Duties will include giving day-to-day direction and scientific guidance in the program planning, development, and evaluation aspects of the Biotechnology Resources Program. This program provides biomedical scientists access to highly specialized instruments, methodologies, and staff expert in their use, and permits maximum exploitation of new, advanced technologies. It establishes interplay between biology and medicine, physical sciences, mathematics, and engineering by emphasizing the use of digital computation, mass spectrometry, nuclear magnetic resonance spectrometry, and high voltage electron microscopy.

Applicant must be a Ph.D. (or equivalent doctoral degree) in one of the biomedical research areas and have significant knowledge and familiarity with the current state-of-the-art of computer technology to qualify.

Applicants should submit resume or Federal Application Form (SF-171) with reference no later than May 9, 1975, to:

Mrs. Pathenia A. Wiggins
Personnel Management Specialist

NATIONAL INSTITUTES OF HEALTH
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POSITIONS OPEN

POSTDOCTORAL POSITION for work on autoecology of larval blackflies. Emphasis on population dynamics as part of an overall research program for development of biological/integrated control schemes utilizing selected blackfly pathogens. Background in biological control highly desirable. Letters of application including curriculum vitae and names and addresses of three referees should be sent to **Dr. Marshall Laird, Director, Research Unit on Vector Pathology, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1C 5S7.**

POSTDOCTORAL RESEARCH IN BIOCHEMISTRY

Postdoctoral position available in July 1975 for person trained in Biochemistry/Cell Biology to work on nuclear NAD metabolism and chromatin structure in normal and neoplastic tissues. Available for 2 to 3 years. Salary \$11,000 to 14,000 per annum depending on age and family status. Send curriculum vitae and names of two referees to: **Dr. H. Hilz, Institut für Physiologische Chemie, Universität Hamburg, 2 Hamburg 20, Martinistrasse 52, Germany.**

POSTDOCTORAL RESEARCH ECOLOGIST/MODELER

Full-time research position open immediately at the School of Natural Resources, University of Michigan.

Experience in biogeochemical cycling, hydrology, and modelling at the watershed level required. Applicants should send curriculum vitae, bibliography, and three recommendations to **Dr. C. J. Richardson, School of Natural Resources, University of Michigan, Ann Arbor, Michigan 48104.**

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The Puget Sound Blood Center seeks a **PROFESSIONAL LEVEL INDIVIDUAL (M.D. OR PH.D.) WITH EXPERIENCE IN HISTOCOMPATIBILITY AND BLOOD TYPING PROCEDURES** to supervise a laboratory engaged in tissue typing for transplantation and cell support. Suitable academic appointment at the University of Washington Medical School would be available and a research program in a related area of interest encouraged. *The Puget Sound Blood Center is an Equal Opportunity Employer.*

Contact: **Sherrill J. Slichter, Puget Sound Blood Center, Terry at Madison, Seattle, Washington 98104.**

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Professor of Pathology (Immunology), M.D., of international reputation and experience with demonstrated leadership qualities to direct a large laboratory. For further information write:

**Dr. Richard K. Gershon
Department of Pathology
Yale University School of Medicine
310 Cedar Street
New Haven, Connecticut 06510**

The University of California, Irvine, Department of Pathology, is recruiting for a full-time faculty position at the **PROFESSOR** level. Candidates must be M.D.'s and be Board qualified. Experience in teaching hospitals is desirable. Teaching responsibilities involve instruction of medical students, interns, and residents. Service experience in surgical, cytology, autopsy, forensic pathology, pediatric pathology, and neuropathology is a necessary prerequisite. Responsible for all administrative duties related to anatomic pathology services. Expected to develop independent research activities.

Applications from all qualified candidates are welcome. Minorities and women are encouraged to apply. Send curriculum vitae to:

**Dr. Edward R. Arquilla
University of California, Irvine
Department of Pathology
Irvine, California 92664**

THE BRAZILIAN SPACE RESEARCH INSTITUTE, SOLAR ASTRONOMY

The Brazilian Space Research Institute [Instituto de Pesquisas Espaciais (INPE)] requires an experimental physicist or engineer to work in its solar astronomy project. The successful candidate, who will preferably have some experience in the design of optical instruments, will be required to coordinate the construction and installation of a solar telescope having both white light and H-alpha systems. The post will be initially for 1 year, with the possibility of renewal. Return air fares for the successful applicant and his family will be paid by the Institute. For further details please send curriculum vitae to **Dr. Fernando de Mendonça, General Director, INPE, P.O. Box 515, São José dos Campos, São Paulo, Brazil.**

POSITIONS OPEN

POSTDOCTORAL POSITION

Immediate opening for person with strong chemistry/biology background to do radiosynthesis of pesticide conjugates and mammalian metabolism studies. Send curriculum vitae and references to **R. E. Menzer, Department of Entomology, University of Maryland, College Park, Maryland 20742. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE

Position open for Ph.D. in virology to work on the biochemical and serological characterization of invertebrate viruses and infection in cell culture. Serological background with experience in radioimmune assay preferable.

Position open for Ph.D. in virology to work on comparative and basic studies on arbovirus infection processes in mosquito vector and mosquito cell culture. Biochemical and serological background necessary.

Send curriculum vitae and three letters of recommendations to **Dr. Max D. Summers, The Cell Research Institute and the Department of Botany, The University of Texas at Austin, Austin, Texas 78712. An Equal Opportunity Employer.**

STAFF OFFICER—LIFE SCIENCES

The Assembly of Life Sciences of the National Research Council/National Academy of Sciences seeks a Staff Officer for a 2-year appointment at a competitive salary based on training and experience in the general area of ecological and population biology. Applicants should have substantial background in such areas as ecosystem dynamics, population biology, community and experimental ecology, limnology, or forestry and range sciences. Responsibilities will be largely in support of committees making analysis and assessments of research alternatives and policy implications in this general area. An interest in governmental practices and policies as they relate to science and technology will be helpful. Applicants should send their résumés to **Dr. Russell B. Stevens, Assembly of Life Sciences, National Academy of Sciences, Room 340, 2101 Constitution Avenue, NW, Washington, D.C. 20418. The National Academy of Sciences is an Equal Opportunity Employer.**

SUMMER STUDY

ELECTRON MICROSCOPY: Intensive Summer Seminar on "Techniques in Electron Microscopy," 28 July to 8 August 1975. Enrollment is limited to 14. Fixation, dehydration, and plastic embedding of biological tissue. Ultrathin sectioning; use of LKB knifemaker, Denton evaporator, freeze-etch techniques, electron microscope and dark room. Tuition: \$100 for New York State residents, \$200 for non-New York State. Contact Associate Professor **G. Mokotoff, Orange County Community College, Middletown, N.Y. 10940. Telephone: 914-343-1121.**

SYMPOSIUM

TRACE COMPONENTS OF PLASMA: ISOLATION AND CLINICAL SIGNIFICANCE

6 and 7 May 1975
Washington, D.C.

The American National Red Cross Seventh Annual Scientific Symposium, "Trace Components of Plasma: Isolation and Clinical Significance" will be held on 6 and 7 May 1975 at the Pan American Health Organization, 525 23rd Street, NW, Washington, D.C.

Many vital biologic processes are mediated by plasma proteins which are present in amounts of less than 10 milligrams per 100 milliliters. The symposium is designed to review current knowledge of these trace components and to discuss their purification and clinical use. The general areas to be covered are: Complement, Coagulation and Fibrinolysis; Plasma Factors in Immunity; Permeability and Control Factors (including inhibitors of mitosis and of proteases); and Hormone Binding Proteins.

Preregistration is required; to register, or to obtain further information, write or telephone:

**Symposium Planning Committee
American National Red Cross
Blood Research Laboratory
9312 Old Georgetown Road
Bethesda, Maryland 20014
Telephone: 301-530-6040**

FELLOWSHIPS

Applications are presently being taken for a **POSTDOCTORAL FELLOWSHIP IN MARINE MICROBIOLOGY.** Applicants should have a strong background in biochemistry and geology with laboratory and field experience in anaerobic microbial processes including sulfate reduction, nitrogen fixation, and methane production. Familiarity with geochemical processes in coastal/marine environments is desirable. Initial appointment is for 1 year, but an extension to a second and third year is possible. Employment may begin immediately or at least by 1 September 1975. Send application, including résumé, publication reprints, and three letters of reference to **Director, Center for Wetland Resources, Louisiana State University, Baton Rouge, Louisiana 70803. Equal Opportunity Employer.**

NEW ZEALAND

SENIOR AND POSTDOCTORAL RESEARCH FELLOWSHIPS

The New Zealand National Research Advisory Council invites applications for ten Senior and Postdoctoral Fellowships to be taken up in New Zealand in 1975. The awards will be for scientific research in government departments. A good working knowledge of English is required. There is no restriction regarding nationality of applicants, but successful candidates must meet the requirements of the New Zealand immigration authorities.

A grant equivalent to return economy class air fares from the Fellow's home to the New Zealand institution will be made. While in New Zealand reasonable traveling expenses incurred in connection with the research work will be paid.

All emoluments are taxable.

SENIOR RESEARCH FELLOWSHIPS: Applicants should possess a Ph.D. degree or higher qualification or have a distinguished record of scientific research. The fellowships are intended for research workers who have had professional experience and have published original material. Fellowships are normally for a period of from 9 months to a year. If a Fellow's wife accompanies him a grant equivalent to her return fare will be paid provided the fellowship is for a term of at least 9 months. If applicable, the employer's contribution to a superannuation scheme will be paid. The emoluments will range from NZ\$11,517 to NZ\$17,088 a year.

POSTDOCTORAL RESEARCH FELLOWSHIPS: Applicants should possess a Ph.D. or equivalent degree. The fellowships are intended for research workers who are recent graduates and may have had some research experience since graduation. Fellowships are normally for a period of from 2 to 3 years. If a Fellow's wife and family accompany him a grant equivalent to their return fares will be paid. A grant will also be made toward the cost of transport of personal effects. The emolument will be NZ\$9668 a year.

Application forms and further particulars may be obtained from: **The Senior Administration Officer, National Research Advisory Council, Box 8004, Wellington, New Zealand; The Senior Scientific Adviser, New Zealand High Commission, New Zealand House, Haymarket, London S.W.1 Y4TQ England; from the New Zealand Embassy, 19 Observatory Circle, NW, Washington, D.C. 20008; from the New Zealand High Commission, Suite 804, Commonwealth Building, 77 Metcalfe Street, Ottawa, Canada, K1P 5L6; from the New Zealand High Commission, Commonwealth Avenue, Canberra 2600, A.C.T., Australia; from the New Zealand Embassy, 20-40 Kamiyama-cho Shibuya-ku, Tokyo 150, Japan; from the New Zealand Embassy in Bangkok, Bonn, Brussels, The Hague, Jakarta, Lima, Paris, Rome, Saigon, Santiago, Seoul; from the New Zealand Consulate-General in Athens, Geneva, Sydney; from the New Zealand Commission in Hong Kong; and from the Office of the High Commissioner for New Zealand in Kuala Lumpur, and Singapore.**

Applications must reach the Council's office by 30 September 1975.

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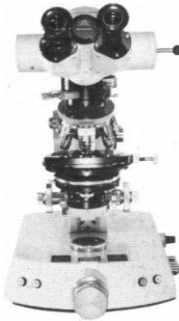


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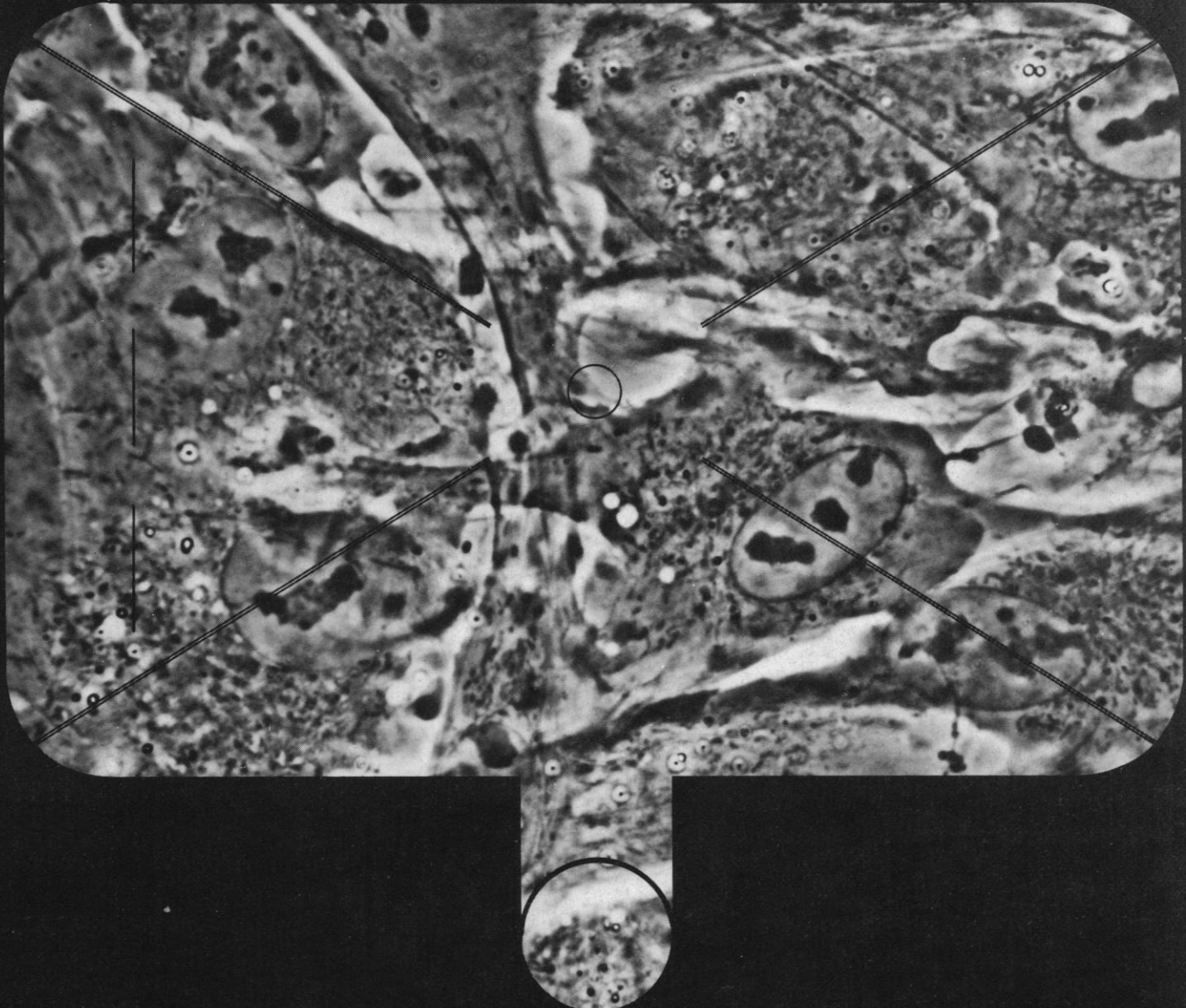
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