

## NEWS AND COMMENT

(Continued from page 48)

noglobulins and that the T cell system has little to do with the B system, we're changing the party line. There seems to be no doubt that there are interactions in many instances and, most significantly, that they are important in regulating patterns of immune response." Investigators say the data are accumulating rapidly on this score. Hong cited some examples, suggesting that the thymus may be important in regulating the production of IgE, an immunoglobulin associated with inflammatory reactions and respiratory problems. It may also be critical to the control of IgA, an immunoglobulin whose deficiency has been correlated with a variety of diseases ranging from disorders of the gastrointestinal and respiratory tracts to autoimmunity to cancer. Evidence that IgA levels are low in nude mice, an inbred strain that has no thymus, and in neonatally thymectomized rabbits "points to a greater dependency of the IgA system upon the thymus than we thought," Hong said.

IgA deficiency appears to be unexpectedly common in the human population. There are estimates that it occurs, with varying degrees of severity, in 1 of 600 persons. That brings it into the range of fairly common birth defects such as mongolism. In many cases, IgA-deficient individuals actually do have IgA-bearing cells in perfectly normal numbers. The problem is that those cells do not secrete fully developed IgA immunoglobulins. Recent studies have shown, however, that, in vitro, these IgA-bearing lymphocytes can be triggered into full IgA production and secretion by stimulation by pokeweed extract. This finding has excited immunologists, who are hoping to find a way to trigger such a reaction in patients. Says Cooper, "It raises the hope that future research will uncover ways to treat this presently untreatable deficiency."

All of this basic work in immunology has had a significant and fairly immediate impact on clinical immunology. And, in turn, studies of patients with primary immunodeficiency disease have contributed to these basic advances. In immunology, perhaps more than in many other areas of biomedical science, human disease constitutes a model system that clearly elucidates basic phenomena. Next week, the current status of therapy for persons with severe immunodeficiency diseases will be examined.—BARBARA J. CULLITON

# Personnel Placement

## POSITIONS WANTED

**Biochemist-Cell Biologist**, Ph.D.; 10 years' experience nucleic acids, protein synthesis, hormones, membranes, radiation. Competent in tissue culture, cancer research. Publications. Seeks permanent research/teaching or research position. Prefers department with strong emphasis on cancer research. Box 194, SCIENCE.

**Biophysicist**, Ph.D. physics 1971, 2 years' research in neurophysiology as NIMH postdoctoral trainee, Brain Research Institute, UCLA. Experience in electrophysiology, optics, spectroscopy, electronics, and computers. Desires teaching and/or research position. Box 195, SCIENCE. X

**Cell Biologist**, Ph.D., woman, established research scientist and innovative university teacher with broad interests in genetics and physiology of cells, social aspects of science; some administrative experience. Seeks nontemporary position compatible with female person who will exhibit high degree of intelligence, autonomy, and creativity on job. Will consider nonacademic positions. Box 170, SCIENCE. X

**Chemist/Biochemist**, Ph.D., 4 years' postdoctoral. Desires opportunity to continue productive research program in chemistry, biochemistry, and antiviral properties (interferon) of synthetic polynucleotides at university or research institute. Teaching experience at university level. Available August 1973. Box 196, SCIENCE. X

**Ph.D. Cytology, Electron Microscopy, Tumor Research**, 12 years' experience university, government, excellent teacher, desires senior level challenging position. Box 174, SCIENCE. 4/6, 13

**Dedicated, Energetic Biologist**, 37, Ph.D. (1965, genetics). Postdoctoral (human genetics); 10 years' university, 5 years' other professional experience. Special interests: genetic counseling, innovative teaching, curriculum planning. Desires position in department seeking to develop meaningful alternatives to depersonalized mass undergraduate education. 2266 Lake Circle, Jackson, Mississippi 39211. 4/20

**Developmental Biologist**: Postdoctoral experience in embryo and tissue culture, tumor virus. Publications. Seeking research, teaching. Box 197, SCIENCE. X

**Ecologist of Fishes**, Ph.D., more than 30 papers, freshwater, estuarine, and open ocean. Administrative experience at program level. Research oriented, but holds position on university staff. Seeks teaching/research, but will accept administrative responsibilities. Box 198, SCIENCE. X

**Enzymologist**, Ph.D. 1970, 4 years of college teaching experience; thesis area: hydrolytic enzyme mechanisms. Postdoctoral area: nucleotide synthesis. Five publications, seeks academic position beginning fall 1973. Box 199, SCIENCE. X

**Geneticist**, recent Ph.D., Canadian citizen, trained in botany, biochemistry, and genetics, with teaching and research experience. Seeks teaching or teaching/research position, preferably in Canada. Box 178, SCIENCE. X

**Geologist**, Ph.D., emphasis volcanology, igneous petrogenesis, geochemical cycles in relation to human survival. B.A. in scientific philosophy, 15 years of secondary to university teaching. Interest in instruction/research opportunities of potential social significance, especially interdisciplinary, innovative approaches. Box 140, SCIENCE. X

**Immunochemist-Immunologist-Biochemist**: Ph.D. (Immunochemistry); M.S. (Microbiology); B.S. (Chemistry). Has had more than 10 years' research experience with publications. Antigen isolation and purification; antigen-antibody interactions and assays (including radioimmunoassays); various immune responses and immunochemical techniques; also interest in pharmacimmunology. Seeks position in applied basic research or research-teaching. Box 200, SCIENCE. X

## POSITIONS WANTED

**Immunologist**, D.V.M., Ph.D., seeks position in university or research institution. Broad interdisciplinary background, including research in foreign animal diseases and cancer immunology. Some teaching experience. Major research interests: cell-mediated immunity in viral and protozoal diseases, immunopathology, and cancer immunology. Box 201, SCIENCE. X

**M.D., Ph.D.** research team have discovered reliable method for detecting minor brain damage in experimental animals. Desire two positions in collaboration with neurosurgeon(s), neurologist(s) for purpose of team R & D of human test procedure. Box 182, SCIENCE. 4/6

**Neurobiologist**, M.D. with long experience and publications on experimental clinical neurology. Strong background in electron microscopy, immunofluorescence of neurotransmitters in neuroendocrinology, autonomic systems, psychoactive drugs. Desires academic research-oriented position. Prefers South-East. Box 185, SCIENCE. 4/6

**Ph.D. with Teaching Background in Genetics, Embryology, Behavior, Molecular Biology, and Statistics**, seeks challenging administrative position (teaching or research). Strong interdisciplinary interests. Administrative training and experience. Broad background in medical research. Many publications, grants, and graduate students. Box 202, SCIENCE. 4/13

**Plant Ecophysiologist**, Ph.D. 1972. Desires position in environmental management and/or research, academic, or nonacademic employment; currently undertaking research in municipal and animal waste recycling for private firm. Box 203, SCIENCE. X

**Plant Physiologist**, Ph.D. 1969, 3 years' teaching experience in plant physiology, botany, and forest biology. Seeks teaching/research position at western location. Publications in reproductive and photosynthetic physiology. Box 204, SCIENCE. X

**Reproductive Biologist**, Ph.D., 37 years old. Research program currently funded and transferable. Teaching experience in endocrine anatomy and physiology, human gross anatomy and microanatomy. Seeks energetic, straightforward, research/teaching environment. Available 1 July 1973. Box 205, SCIENCE. 4/13

**Science Editor**, senior level. Experienced in all aspects of editing, rewriting, printing. Medicine, chemistry specialist. Box 206, SCIENCE. 4/13

**Wise Old Hand**. Nationally known writer, editor, professor, gap-bridge in health communications seeks to relocate in action-oriented institution or program that values wide experience. Author of seven books, 250-plus professional journal and popular magazine articles interpreting health professionals' behavior in research, education, patient care, community services; consultant, contributor in commission studies, task force reports; recognized expert in conceptualizing problems, objectives; experienced in program planning, administration. Box 207, SCIENCE. X

## POSITIONS OPEN

**HUNTER COLLEGE, ENVIRONMENTAL HEALTH SCIENCE PROGRAM** seeks **ASSISTANT PROFESSOR** for graduate and undergraduate teaching. Doctorate required with experience in one or more areas of environmental health including health physics. City University of New York salary scale and benefits. An equal opportunity employer. Résumé to: **Dr. George Kupchik, Program Director, Environmental Health Science, Institute of Health Sciences, 105 East 106 St., New York, N.Y. 10029.**

### ASSISTANT PROFESSOR OF GENETICS

A 1-academic year visiting appointment beginning September 1973. Duties will include an upper division course in general genetics and participation in an introductory genetics course for nonscience students. Send curriculum vitae and references to **Dr. Eugene Gasiorowski, Chairman, Division of Science, The University of Wisconsin-Parkside, Kenosha, Wisconsin 53140.** The University is an equal opportunity institution.

### ASSOCIATE PROFESSOR

Position available in the Department of Microbiology, University of Michigan Medical School. Candidate must have Ph.D. and 1 year of postdoctoral training, or equivalents. Position is for immunologist to conduct independent research in basic immunology and to participate in teaching programs. Code #200J. Send résumé with reprints of most significant publications to **Box 208, SCIENCE.** A Nondiscriminatory Affirmative Action Employer.

## POSITIONS OPEN

### BIOCHEMIST Ph.D.

Biochemist experienced in protein and glycoprotein fractionation. Candidates should have proficiency with various fractionation techniques, GLC, and be able to lead group efforts. Interested candidates send curriculum vitae, references, and publications to:

Dr. B. Mackler  
Litton Bionetics, Inc.  
7300 Pearl Street  
Bethesda, Md. 20014

**BIOCHEMIST**, with knowledge of radioimmunoassay techniques, for new endocrine laboratory in a large metropolitan Ob-Gyn hospital. M.S. preferred, but B.S. with equivalent experience considered. Research opportunities, salary negotiable. Application must include curriculum vitae. Contact **Pathologist, Columbia Hospital for Women, 2425 L St., N.W., Washington, D.C. 20037.**

## POSITIONS OPEN

**BIOLOGIST** to teach introductory biology and an elective course in one of the following areas: genetics, microbiology, histology, embryology. Appointment will probably be made at the assistant professor level. Address letter of application to **Professor Jerome Metzner, John Jay College, CUNY, 360 Park Ave. South, New York, New York 10010.**

### BIOENGINEER

Leading specialty chemical manufacturer requires a bioengineer for fermentation research. Position would be located in San Diego. Responsibilities would include improvement of fermentation efficiency as well as improvement of product recovery efficiency in bench-process scale up to pilot level.

The applicant should have a B.S. or M.S. in Bioengineering or other related fields utilizing a strong background in bioengineering. Up to 3 years' experience in fermentation technology also would be desirable. Please submit résumé and salary requirement to:

Box 209, SCIENCE

## POSITIONS OPEN

Prominent environmental consulting firm, located on the East Coast, has scientific and engineering positions available in the following disciplines:

### BIOLOGICAL SCIENCES SOCIAL SCIENCES PHYSICAL SCIENCES

We are involved in environmental impact and siting studies for power stations, gas transmission facilities and other industrial plants.

Interested, qualified professionals are invited to submit detailed résumés in confidence, indicating salary requirements.

BOX 211, SCIENCE

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### DEPARTMENT OF BIOLOGY HARVARD UNIVERSITY

Prior to 1 July 1974 this department expects to make an appointment at the assistant professor level. The field in which the appointment will be made is animal cell biology. The University is an equal opportunity employer; women and members of minority groups are specifically encouraged to apply. Please have three professional persons write us concerning you, and send your résumé, together with your most significant publications, to **Cell Biology Search Committee, Biological Laboratories, Harvard University, 16 Divinity Avenue, Cambridge, Massachusetts 02138.**

### CELLULAR IMMUNOLOGIST

Applications are invited for an appointment as Assistant Professor in the Department of Microbiology. Responsibilities will include teaching professional and graduate students and establishing a strong, independent research program in some area of cellular immunology. Qualified applicants should send curriculum vitae, reprints of publications, and names of three to five references before 20 April to: **Dr. Joel W. Goodman, Department of Microbiology, University of California, San Francisco, California 94122.**

(An Affirmative Action/Equal Opportunity Employer)

**CHAIRMAN AND PROFESSOR OF PEDIATRICS**, Department of Pediatrics, University of Pennsylvania. In compliance with University policy, qualified candidates are invited to submit their credentials to: **Office of the Dean, University of Pennsylvania School of Medicine, 36 and Hamilton Walk, Philadelphia, Pa. 19104. ATT: Chairman, Pediatric Search Committee.**

### CHIEF SCIENTIST (BIOLOGY)

Biological Survey, New York State Museum and Science Service. Has responsibility for administration, guidance, and coordination of research and advisory services in the broad areas of botany, entomology and zoology. Conducts personal research in his/her particular discipline. A specialization in forest entomology or forest biology would be preferred. Competitive salary, excellent benefits. Send résumé to **Mr. George Delamar, Box 1, Personnel, State Education Department, Albany, New York 12224.**

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### CITRUS PHYSIOLOGIST AND BIOCHEMIST

Ph.D. and minimum of 6 years' experience in pre- and postharvest physiology and biochemistry of citrus fruit. Knowledge of methods for detection and control of pollutants in citrus packinghouse and processing plant effluents mandatory. Send résumé and references to **Personnel Director, P.O. Box 148, Lakeland, Florida 33802.**

### DIRECTOR OF LIFE SCIENCES RESEARCH (ASCP)

Ph.D. with 10+ years of experience in developing and directing contract and grant research in fields of biochemistry, toxicology, microbiology, and so forth, required to assume directorship of ongoing \$1 MM+ annual operation. Good proposal writing ability and rapport with federal health agencies a must. Excellent opportunity to enter a growing R & D firm, in a pleasant southern location, at a top management position. *Equal Opportunity Employer.*

Box 210, SCIENCE

## BIOCHEMIST - IMMUNOLOGIST

Experienced B.S. or M.S. biochemist to conduct research directed toward the development of antigen and antibodies for therapeutic use. Salary commensurate with training, experience and responsibilities.

Personnel Department

### ARMOUR PHARMACEUTICAL COMPANY

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Kankakee, Illinois 60901

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## Pharmacological Research

Due to the addition of new projects within our experimental drug programs, two immediate career positions are now available. We require individuals who can bring specific expertise to these areas of pharmacological research. The positions offer qualified scientists the opportunity to work in highly equipped laboratories and to direct new and expanding research projects in the areas of new drug evaluations. Applicants with 0-5 years' experience and indicated qualifications will be considered.

### PSYCHOPHARMACOLOGIST

Ph.D. degree in pharmacology or experimental psychology. The primary areas of investigation will be learning, memory and performance enhancement. Applicants should have direct familiarity with the areas indicated and should be able to propose experimental approaches for determining drug effects on these functions.

### CARDIOPULMONARY PHARMACOLOGIST

Ph.D. degree in cardiovascular pharmacology or physiology. Besides evaluation of drugs on the cardiovascular system, responsibilities will include research on pharmacological antagonism of effects due to hypoxia. Familiarity with experimental procedures for assessing airway resistance and lung compliance desirable.

The Syracuse, New York, location offers the opportunity to enjoy the city life and the outdoors. Liberal benefits are also provided for the protection of you and your family.

Please send a confidential résumé including your education, specific experience and salary history to:

Professional Employment

### Bristol Laboratories

Division of Bristol-Myers Company

P. O. Box 657, Syracuse, New York 13201

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## POSITIONS OPEN

### DIRECTOR, MARINE SCIENCES RESEARCH CENTER, STATE UNIVERSITY OF NEW YORK AT STONY BROOK

Candidates should hold the Ph.D. degree or equivalent, and have demonstrated competence in Marine Sciences, Administration, and Management. The Director will be responsible for supervising and developing research programs associated with the multiple uses of the marine environment of New York State, and coordinating these programs with appropriate academic departments at Stony Brook. The Director will also be concerned with developing and encouraging specific relationships between state and other public agencies concerned with marine affairs in the coastal waters of the New York area. Send résumé, reprints of major publications, and list of references to: **Dr. R. F. Jones, Division of Biological Sciences, State University of New York at Stony Brook, N.Y. 11790.**

*SUNY is an equal opportunity employer.*

### ELECTRON MICROSCOPIST

Faculty position open in Department of Microbiology, Mount Sinai School of Medicine of the City University of New York, for independent investigator to direct research and teaching in relation to bacterial or viral ultrastructure. Academic rank and salary will depend on qualification. Only written communications including curriculum vitae and bibliography will be considered. Address to **Dr. E. D. Kilbourne, 10 East 102 Street, New York, New York 10029.**

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### FACULTY POSITION—PURDUE UNIVERSITY

Assistant professor, Ph.D., September 1973. Primarily research with some teaching responsibility in area of applicant's expertise. Applicants should (i) possess expertise in quantitative population dynamics and population modeling, (ii) be knowledgeable in the systems approach to population manipulation, and (iii) participate in a team effort to develop pest management schemes for agroecosystems. Applicants should submit curriculum vitae and letters of reference no later than 1 May 1973 to **Dr. Eldon E. Ortmann, Head, Department of Entomology, Purdue University, West Lafayette, Indiana 47907.**

*Purdue University is an equal opportunity employer*

### SCHOOL OF BASIC MEDICAL SCIENCES UNIVERSITY OF ILLINOIS, URBANA

Three new positions in **GROSS ANATOMY, NEUROANATOMY, and MICROSCOPIC ANATOMY** are available either September 1973 or 1974 for one senior person and two junior persons. The curriculum is unique and innovative, requiring close cooperation between campus faculty and community physicians. Applicants must have demonstrated outstanding research potential with research interests related to medical sciences and must be competitive for research funding at the national level. Equal opportunities exist for qualified women and minority group members. Deadline date for applications is 3 weeks from publication of this notice. Send applications, including curriculum vitae, publication list, reprints, and at least three letters of recommendation to the **Chairman of the Search Committee, Dr. Ray L. Watterson, Department of Zoology, University of Illinois, Urbana, Illinois 61801**, who will be available for interviews at the meeting of the American Association of Anatomists 8 through 12 April.

### HERPETOLOGIST

The Museum of Zoology of the University of Michigan invites applications for the position of assistant curator of reptiles and amphibians. Appointee will also be assistant professor of zoology. Ph.D. must have been completely earned before beginning duties. Three letters of recommendation, curriculum vitae, and reprints should be sent to **Dr. Nelson G. Hairston, Director, Museum of Zoology, University of Michigan, Ann Arbor, Mich. 48104.** A nondiscriminatory affirmative action employer.

Applications are invited for the position of Assistant Professor of Neuroscience in the field of **NEUROCHEMISTRY**. Responsibilities include research and teaching. Requisites are training in biochemistry and competence in macromolecular aspects of neurophysiology, neuroanatomy, or behavior. Send references, curriculum vitae, reprints, research plans, and needs to **Dr. F. A. King, Chairman, Department of Neuroscience, University of Florida College of Medicine, Gainesville, Florida 32601.** An equal opportunity employer M/F.

## POSITIONS OPEN

### EG&G/MASON RESEARCH INSTITUTE Ph.D. or Equivalent

The Washington Laboratory of EG&G/Mason Research Institute has openings for senior scientists with more than 4 years experience in the fields of Virology, Immunology, Cell Biology and Biochemistry in its rapidly expanding biomedical research and vaccine development program.

Send detailed résumé and salary history in strict confidence to:

**Dr. Ray M. Dutcher**  
Scientific Director  
EG&G/Mason Research Institute  
1530 East Jefferson Street  
Rockville, Maryland 20852

*An Equal Opportunity Employer M/F*

### PHARMACOLOGIST

Full-time position available for **Pharmacologist (D.D.S. and Ph.D., or Ph.D.)**. Opportunity for educational innovation, research, and professional development in a major health center.

**Box 168, SCIENCE**  
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Kitt Peak National Observatory seeks **PROGRAMMER** well experienced in process control or real-time applications to supervise and coordinate software development effort. Should be able to communicate well with both hardware design or maintenance engineers and the scientific staff. Experience with astronomy would be helpful but not essential.

Send résumés to **Personnel, Kitt Peak National Observatory, P.O. Box 4130, Tucson, Arizona 85717.** An Equal Opportunity Employer

### SCIENTIST-ADMINISTRATOR

University of Pennsylvania (Philadelphia) invites qualified applicants to apply for the position of Director, Center for Oral Health Research. Applicant should be an established investigator, active in research and interested in oral health, with administrative ability and experience. Send curriculum vitae, list of references, and other pertinent information to **Administrator, Center for Oral Health Research, 4001 Spruce Street, Philadelphia, Pa. 19104.**

### TECHNOLOGY MANAGEMENT

Immediate opening for specialist in science and technology policy and management. Temporary (12 to 18 months) location in Washington, D.C., then Denver. Position involves research and support activities to a federal program designed to stimulate innovation in public and private sectors. Minimum educational requirements: bachelor's in science or engineering, master's in technology policy/management area, Ph.D. preferred. Minimum work experience: 4 years in industry and/or government. Thorough knowledge required of the innovation process in industry and of government-industry-university science and technology relationships. Send curriculum vitae, including references, to: **Industrial Economics Division, University of Denver Research Institute, Denver, Colorado 80210.** Women and Minority Persons Are Encouraged to Reply.

## GRADUATE STUDY

### MARINE ENVIRONMENTAL STUDIES PROGRAM

Leading to M.S. degree emphasizes an interdisciplinary approach to solving coastal marine problems. Students are trained to become professionals in marine environmental management with a strong scientific orientation. Courses include physical, chemical, and biological aspects of marine regions; fishery management and environmental law; impact statement and case history analyses. For details write **Dr. C. F. Wurster, Marine Sciences Research Center, State University of New York, Stony Brook, New York 11790.**

## GRADUATE STUDY

### PREDOCTORAL ASSISTANTSHIPS

Excellent opportunities are available for graduate students to pursue a Ph.D. in contemporary areas of Biological Sciences. Stipends are available up to \$3500 for 9 months, up to \$800 additional for the summer. For details write to: **Dr. C. P. Sword, Chairman, Life Sciences Department, Indiana State University, Terre Haute, Indiana 47809.**

### GRADUATE STUDY IN BIOCHEMISTRY

Leading to the Ph.D. Background in biology or chemistry required. Stipend \$3100 and remission of tuition. Write

**Chairman**  
Department of Biochemistry  
University of Illinois  
at the Medical Center  
Chicago, Ill. 60680

### PREDOCTORAL ASSISTANTSHIPS IN PHYSIOLOGY

Excellent opportunities for graduate students leading to the Ph.D. Stipends and free tuition. Training and research in cardiovascular, cellular, endocrine, gastrointestinal, energy metabolism, neurophysiology, respiration and transport physiology. Write for details to **Head, Department of Physiology, School of Basic Medical Sciences, University of Illinois at the Medical Center, P.O. Box 6998, Chicago, Illinois 60680.**

## FELLOWSHIP

### SENIOR RESEARCH FELLOWSHIP

For research work in areas related to precipitation phenomena, aqueous crystal growth mechanisms, biological calcification, solution calorimetry. Postdoctoral experience required. Available June 1973. Résumé and letters of reference to: **Professor George H. Nancollas, Department of Chemistry, State University of New York at Buffalo, Buffalo, New York 14214.**

## COURSES

### SANTA CATALINA MARINE BIOLOGICAL LABORATORY

The Santa Catalina Marine Biological Laboratory is pleased to announce its 1973 Summer Program at Santa Catalina Island. The titles, instructors (with names italicized), and guest participants for the formal courses offered are listed below:

20 June to 24 July

**NEURONAL BASIS OF BEHAVIOR**—Howard Wachtel, George Moore, Alvin Siger, Dennis Willows

**SUBSTRATE ECOLOGY**—Michael Risk, Kristian Fauchald, Donald Rhoades, Howard Sanders

26 July to 29 August

**MARINE PLANKTON ECOLOGY**—John Raymond, Abraham Fleminger, William Hamner, Mark Littler, Michael Mullins

**BIOLOGY OF POLYCHAETES**—Kristian Fauchald, Paul Schroeder, James Blake, Olga Hartman, Colin Hermans, Donald Reish, Thomas Richards

Supplementing our formal course work, **INDEPENDENT or DIRECTED RESEARCH** may be pursued at any time of the year.

For additional information, write **Dr. Russel L. Zimmer, Resident Director, Santa Catalina Marine Biological Laboratory, Box 398, Avalon, California 90704** or telephone area code 213, Avalon 811 (operator's assistance is required).

## The Market Place

### CHARTER FLIGHT TO INTERNATIONAL CONGRESS OF BIOCHEMISTRY

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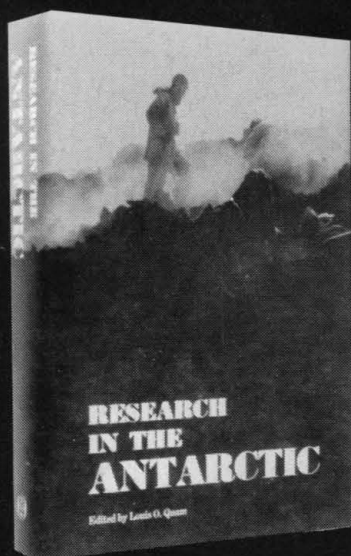
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