APS JOURNALS

STATEMENTS OF SCOPE

Beginning in January 1977 the American Physiological Society will publish the following primary journals:

Journal of Applied Physiology: Respiratory, Environmental and Exercise Physiology

Editor: L. E. Farhi
Associate Editors: E. R. Buskirk, A. P. Gagge, Claude Lenfant, Joseph Milic-Emili, S. M. Tenney

The Journal of Applied Physiology: Respiratory, Environmental and Exercise Physiology accepts articles that contribute significant insights into these three areas of physiology:

1) Respiratory physiology, including respiratory mechanics, alveolar gas exchange, pulmonary circulation, blood gas transport, tissue and cellular gas exchange, regulation, and acid-base balance; 2) Environmental physiology, including exposure to abnormal environmental conditions (such as heat stress, altitude, radiation, abnormal atmosphere), immediate responses as well as adaptive mechanisms; 3) Exercise physiology, including response of the whole body or the specific systems to physical exercise, effects of training, work capacity, and exercise under abnormal environmental conditions.

The information reported may be obtained from human or animal experiments, observations on patients, mathematical analyses, or from work with physical or computer models.

American Journal of Physiology: Heart and Circulatory Physiology

Editor: M. N. Levy
Associate Editors: P. C. Johnson, Paul Martin, W. W. Parmley, Kiichi Sagawa, Mario Vassalle

The American Journal of Physiology: Heart and Circulatory Physiology will publish original scientific contributions dealing with all aspects of the function and control of the heart, the large arteries and veins, the microcirculation, and blood and lymph. It will include studies that employ a variety of approaches, including biochemical, biophysical, physical-chemical, electrophysiological, anatomical, immunological, and surgical orientations. Studies will be considered that are carried out at all levels of organization, from those dealing with in vitro biochemical studies to observations on intact, unanesthetized man and other animals.

American Journal of Physiology: Renal, Fluid and Electrolyte Physiology

Editor: T. E. Andreoli
Associate Editors: J. J. Grantham, F. S. Wright

The American Journal of Physiology: Renal, Fluid and Electrolyte Physiology will publish original manuscripts that deal with renal or body-fluid and electrolyte physiology. Authors are encouraged to submit manuscripts based not only on work involving renal or body-fluid and electrolyte physiology in a particular sense, but also those on broader aspects of excretion and secretion, such as theoretical or experimental papers on transport events in other epithelia, synthetic membrane systems, and reconstituted membrane systems. Manuscripts on the pathophysiology of diseases of the kidney and of fluid and electrolyte homeostasis are welcome.

American Journal of Physiology: Endocrinology, Metabolism and Gastrointestinal Physiology

Editor: Rachmiel Levine
Associate Editors: R. M. Bergman, L. R. Johnson, Daniel Porte, Jr., David Rodbard, George Sachs

This journal will publish results of original studies as well as relevant discussions of important issues in the broad fields of endocrinology, metabolism and gastrointestinal physiology. Investigations covering the entire spectrum from molecular biology and biochemistry to animal experimentation, clinical investigation, and mathematical or theoretical studies will be included. Emphasis will be placed on physiological processes at the organ or system level. Investigations of the physiology of gastrointestinal hormones, insulin, glucagon, and the regulation of intermediary metabolism will be welcome, as well as studies dealing with the actions and functions of the anterior and posterior pituitary, thyroid, parathyroid, and adrenal glands and the ovary and the testis. All aspects of metabolism will be considered in addition to the traditional areas of the transformation of foodstuffs. In the broad field of gastrointestinal function, in addition to work on hormones, the journal will encourage the submission of manuscripts on motility, electrophysiology, absorption, and digestion in vivo and in vitro.

It is hoped that this journal will thus provide a broad overview of pertinent physiological facts and theories, as well as functional deviations produced by disease.

American Journal of Physiology: Cell Physiology

Editor: Paul Horowicz

Associate Editors: P. J. DeWeer, H. A. Fozzard, F. J. Julian, C. F. Stevens, J. S. Willis, Saul Winegrad

systems.

Manuscripts that emphasize problems of communication and control are especially welcome, whether the problems lie within animals, between individuals, or between the individual and the environment. Investigations appropriate for this journal include experimental or mathematical approaches to physiological systems analysis. Some specific examples of topics suitable for Regulatory, Integrative and Comparative Physiology include: thermoregulation, biological rhythms, (chronobiology), regulation of body weight (water and energy stores), shock and responses to trauma, adaptation to special environments (such as altered gravity), comparative and relevant biochemistry (e.g., osmoregulation), regulatory aspects of behavior (sleep, ingestion of food or water, reproduction, hormonal release as a consequence of behavior, hormones or metabolites as causative factors in behavior), and neural control of physiological process.

The editors are interested in attracting the papers of physiologists who are united by a broad interest in regulation, integration, and evolution, as generalized beyond the particular properties of any given system or experimental object.

Journal of Neurophysiology

Chief Editor: E. V. Evarts

The aim of the Journal of Neurophysiology is to provide a channel for the publication of original contributions on the function of the nervous system. Materials submitted may include any phase of the subject amenable to experimental analysis, regardless of experimental methods employed. In earlier times, recordings of electrical activity provided the major advances in our understanding of the function of the nervous system, but today advances in neurophysiology involve the use of more diverse techniques. The increasingly widespread use of anatomical and histochemical techniques in the solution of neurophysiological problems means that a journal of neurophysiology must become correspondingly broader. Furthermore, studies of the nervous system in intact behaving animals and man are becoming increasingly important, and this area is also to be represented in the Journal of Neurophysiology.

After April 1, 1976 manuscripts should be submitted to the appropriate Editor, American Physiological Society, 9650 Rockville Pike, Bethesda, MD 20014.

A WORD ABOUT PUBLICATIONS

Preoccupation with sectionalization should not obscure important changes that are occurring in the membership of the Publications Committee. Dr. F. Eugene Yates and Dr. Paul Horowicz are about to become emeritus. They will be succeeded by Dr. Robert M. Berne and Dr. Robert W. Berliner. As the remaining member of the Publications Committee, I should like to express to Drs. Yates and Horowicz the indebtedness of the Society for their continued efforts and contributions to the progress of the journals during the last few years. I should also like to welcome Drs. Berne and Berliner to the Publications Committee and to thank them for their willingness to take on this time-consuming and important responsibility of the American Physiological Society.

Alfred P. Fishman, M.D.
Chairman, Publications Committee