

NEW FEATURES OF APS RESEARCH JOURNALS

One of the more provocative aspects of the reorganization of the *American Journal of Physiology* and *Journal of Applied Physiology* is the allocation of up to 100 pages per year to each editor for use at his discretion. Each editor has used these pages in a way that provides something for readers in each special area that is not produced by the regular submitted articles. Most editors have invited contributions, subjected to careful review, but the way that the pages have been used varies. Below is a list of such material published between January 1977 and June 1978. If you were not aware of this new feature of the journals, please examine recent issues and familiarize yourself with it. Each of the editors would like to have comments from you on this feature and suggestions for other ways in which the content of the journals can be improved.

AJP: Cell Physiology

An invited review: "Sodium ions, calcium ions, blood pressure regulation, and hypertension: a reassessment and a hypothesis" by M. B. Blaustein was published in May 1977.

AJP: Endocrinology, Metabolism and Gastrointestinal Physiology

Four articles on models for intestinal transport were published:

1. Sodium-coupled solute transport by small intestine: a status report by S. G. Schultz. (October 1977)
2. Energetics of Na⁺-dependent sugar transport by isolated intestinal cells: evidence for a major role for membrane potentials by G. A. Kimmich, C. Carter-Su, and J. Randles. (November 1977)
3. Isolated membrane vesicles as tools for analysis of epithelial transport by U. Hopfer. (December 1977)
4. Some characteristics of kidney Na⁺-dependent glucose carrier reconstituted into sonicated liposomes by R. K. Crane, P. Malathi, H. Preiser, and P. Fairclough. (January 1978)

AJP: Heart and Circulatory Physiology

Toward the end of 1977 a series of reviews on cardiac electrophysiology was started. The series is continuing in 1978.

1. Cardiac electrophysiologic alterations during myocardial ischemia by V. Elharrar and D. P. Zipes. (September 1977)
2. Cardiac automaticity and its control by M. Vassalle. (December 1977)
3. Ionic basis of electrical activity in cardiac tissues by E. Coraboeuf. (February 1978)
4. Reentrant excitation as a cause of cardiac arrhythmias by A. L. Wit and P. F. Cranfield. (June 1978)

The series is to be completed in 1978, and additional topics begun, on excitation-contraction coupling and on hypertension.

AJP: Regulatory, Integrative and Comparative Physiology

The meaning of the title of the journal is being examined in a series of invited papers. M. Bunge wrote on "Levels and reduction" (September 1977) and A. S. Iberall wrote three papers on "A field and circuit thermodynamics for integrative physiology." (November 1977, January 1978, March 1978)

The May 1978 issue contains an article entitled "Contributions of the communication sciences to physiology" by W. M. Siebert. Each of these articles has been preceded by a thought-provoking editorial written by the editor, F. E. Yates.

AJP: Renal, Fluid and Electrolyte Physiology

Editorial Reviews began in February 1977 and have been published in each succeeding month:

Freeze-fracture electron microscopy: relationship of membrane structural features to transport physiology.

J. B. Wave, W. A. Kachadorian, and V. A. DiScala (February 1977)

A reinvestigation of the function of the mammalian urinary bladder.

S. A. Lewis (March 1977)

Use of inhibitors in physiological studies of carbonic anhydrase.

T. H. Maren (April 1977)

Electron probe microanalysis: its present, its future.

C. P. Lechene (May 1977)

An analysis of the determinants of nephron filtration rate.

B. J. Tucker and R. C. Blantz (June 1977)

Feedback regulation of glomerular filtration rate.

F. S. Wright and J. P. Briggs (July 1977)

Neurogenic regulation of renal tubular sodium reabsorption.

G. F. Di Bona (August 1977)

Prostaglandins and the kidney.

M. J. Dunn and V. L. Hood (September 1977)

Phosphate transport along the nephron.

F. G. Knox, H. Osswald, G. R. Marchand, W. S. Spielman, J. A. Haas, T. Berndt, and S. P. Youngberg (October 1977)

Ion pumps in the renal tubule.

G. Sachs (November 1977)

Structural and functional heterogeneity of mammalian nephrons.

H. Valtin (December 1977)

The sodium transport pool.

A. D. C. Macknight and A. Leaf (January 1978)

Transport in isolated plasma membranes.

U. Hopfer (February 1978)

Current concepts on the pathophysiology of acute renal failure.

J. H. Stein, M. D. Lifschitz, and L. D. Barnes (March 1978)

Intracellular activities of sodium and potassium.

M. Civan (April 1978)

Renal autoregulation: perspectives from whole kidney and single nephron studies.

L. G. Navar (May 1978)

Glomerular permselectivity: barrier function based on discrimination of molecular size and charge.

B. M. Brenner, T. H. Hostetter, and H. D. Humes (June 1978)

JAP: Respiratory, Environmental and Exercise Physiology

"Abstracts from Current Literature" is a unique feature that appears in each issue of the journal. N. R. Anthonisen is presently selecting abstracts of important articles that have appeared in journals frequently cited in JAP articles. Two sides of a controversy were expressed in articles by G. H. Gurtner and R. E. Forster in answer to the question "Can alveolar P_{CO₂} exceed pulmonary end - capillar CO₂?" (March 1977)

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