CONTENTS

EDITORIAL REVIEW

A reinvestigation of the function of the mammalian urinary bladder
S. A. Lewis

Potassium activity and plasma membrane potentials in epithelial cells of toad bladder
G. Kimura, S. Urakabe, S. Yuasa, S. Miki, Y. Takamitsu, Y. Orita, and H. Abe

Function of the thin ascending limb of Henle of rats and hamsters perfused in vitro
M. Imai

Bicarbonate ions in active sodium transport across toad bladder
J. S. Chen and M. Walser

Dissociation of renal blood flow and filtration rate autoregulation by renin depletion
J. E. Hall, A. C. Guyton, and A. W. Cowley, Jr.

Inhibition of probenecid uricosuria by pyrazinamide and para-aminohippurate
A. D. Meisel and H. S. Diamond

Renal sugar transport in the winter flounder. III. Two glucose transport systems
A. Kleinzeiler, G. R. Dubyak, P. M. Griffin, E. M. McAvoy, J. M. Mullin, and R. Rittmaster

Absence of significant secretory flux of phosphate in the proximal convoluted tubule
R. F. Greger, F. C. Lang, F. G. Knox, and C. P. Lechene

Monovalent cation and ouabain effects on PAH uptake by rabbit kidney slices
R. A. Podevin and E. F. Boumendil-Podevin

Renin stimulation by isoproterenol and theophylline in the isolated perfused kidney
R. J. Viskoper, M. H. Maxwell, A. N. Lupu, and S. Rosenfeld

Effect of potassium on utilization of [1-14C]palmitic acid in renal cortex of the rat
M. E. Wagner and H. O. Heinemann

Vasopressor role of ADH in the pathogenesis of malignant DOC hypertension
J. Möhring, B. Möhring, M. Petri, and D. Haack

Insulin-mediated Na+ transport in the toad urinary bladder
M. Cox and I. Singer

(Continued)
Special Information

The American Journal of Physiology: Renal, Fluid and Electrolyte Physiology publishes original manuscripts that deal with renal and 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. Papers on the pathophysiology of diseases of the kidney and of fluid and electrolyte homeostasis are welcome. This journal’s special features include invited brief reviews of a tutorial, research, and historic nature, Letters to the Editor, brief editorials, reports on symposia, proceedings of workshops, and book reviews.