

THE JOURNAL OF
Pharmacology

AND EXPERIMENTAL THERAPEUTICS

FOUNDED BY JOHN J. ABEL 1909

*Official Publication of The American Society for
 Pharmacology and Experimental Therapeutics, Inc.*

EDITOR

MARION DE V. COTTEN

EDITORS FOR SPECIFIC FIELDS

JOSEPH COCHIN: *Analgesia and Drug Abuse*
 J. RICHARD CROUT: *Autonomic Pharmacology*
 WILLIAM W. FLEMING:
 BERNARD WEISS: *Behavioral Pharmacology*
 BERT N. LA DU: *Biochemical Pharmacology*
 HENRY H. SWAIN: *Cardiovascular Pharmacology*
 JOHN R. BLINKS: *Cell Pharmacology*
 MILTON T. BUSH: *Drug Metabolism and Disposition*
 KENNETH P. DU BOIS:
 ALFRED HELLER: *Neuroendocrine Pharmacology*
 WILLIAM K. RIKER: *Neuropharmacology*
 IRWIN M. WEINER: *Renal Pharmacology*
 GABRIEL L. PLAA: *Toxicology*

EDITORIAL ADVISORY BOARD

Julius Axelrod
 Lloyd Beck
 William O. Berndt
 Michael J. Brody
 Theodore M. Brody
 George A. Condouris
 Theodore Cooper
 E. E. Daniel
 D. Joseph Demis
 G. A. Deneau
 Peter E. Dresel
 Ronald W. Estabrook
 Thomas E. Gaffney
 William F. Ganong

James R. Gillette
 Jack Peter Green
 Anthony J. Hance
 Louis S. Harris
 David Jacobowitz
 R. T. Kelleher
 Ronald G. Kuntzman
 S. Morris Kupchan
 Victor G. Laties
 Bernard Levy
 Benedict R. Lucchesi
 Harriet M. Maling
 Bernard H. Marks
 Steven E. Mayer
 John A. Oates

Lincoln T. Potter
 Arnold Schwartz
 Charles B. Smith
 Frank G. Standaert
 C. D. Thron
 Elwood O. Titus
 U. Trendelenburg
 Joan Vernikos-
 Danellis
 Andrew G. Wallace
 Douglas R. Waud
 Norman Weiner
 Herbert Weissbach
 Albert Weissman
 Martin M. Winbury
 Richard J. Wurtman

BOARD OF PUBLICATIONS TRUSTEES

WALTER F. RIKER, JR., *Chairman*; GEORGE H. ACHESON, EDWARD J. CAFRUNY, MARION DE V. COTTEN
 ROBERT F. FURCHGOTT, GEORGE H. MANDEL, WALTER MODELL, PAUL TALALAY, E. LEONG WAY

EXECUTIVE OFFICER OF THE SOCIETY

ELLSWORTH B. COOK

COPYRIGHT © 1970, BY THE WILLIAMS & WILKINS COMPANY