

The Journal of PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

A Publication of The American Society
for Pharmacology and Experimental Therapeutics

Founded by John J. Abel 1909

EDITOR

John A. Harvey

ASSISTANT EDITOR

Jay Roberts

EDITORS FOR SPECIFIC FIELDS

Analgesia and Drugs of Abuse
Billy R. Martin
Frank Porreca

Autonomic Pharmacology
Robert E. Stitzel
Suzanne G. Laychock
Kenneth P. Minneman

Behavioral Pharmacology
Linda A. Dykstra
Lewis S. Seiden

Cardiovascular Pharmacology
Leslie E. Bailey
Sue Piper Duckles
Harry S. Margolius

Cellular Pharmacology
Toshio Narahashi
Ronald P. Rubin
George B. Weiss

Chemotherapy
H. George Mandel

Developmental Pharmacology
Bernard L. Mirkin

Drug Metabolism and Disposition
Edward Bresnick
Grant R. Wilkinson

Endocrine Pharmacology
Paula H. Stern

Gastrointestinal Pharmacology
Timothy S. Gaginella
David R. Brown

Immunopharmacology
John W. Hadden

Neuropharmacology
David B. Bylund
S. J. Enna
James W. Gibb
Barry J. Hoffer
Elaine Sanders-Bush

*Prostaglandins, Leukotrienes
and Other Eicosanoids*

K. U. Malik

Pulmonary Pharmacology
Mannfred A. Hollinger

Renal Pharmacology
William O. Berndt
Alan S. Nies

Toxicology
Curtis D. Klaassen

EDITORIAL ADVISORY BOARD

Margaret Acara
Martin W. Adler
Edson X. Albuquerque
Julius C. Allen
William D. Atchison
Robert L. Balster
Paul Bass
Michael A. Beaven
Donald M. Bers
C. Paul Bianchi
David A. Blake
Floyd E. Bloom
Peter G. Bradford
Craig D. Brater
Carl K. Buckner
Theodore J. Cicero
Marlene L. Cohen
Charles R. Craig
E. E. Daniel
William C. de Groat
Louis Diamond
Walter R. Dixon
Thomas V. Dunwiddie

Hugh L. Evans
Jerry M. Farley
Harold Feinberg
Gregory D. Fink
Stephen K. Fisher
Garret A. FitzGerald
Jerome H. Fleisch
Alan Frazer
Ray W. Fuller
James J. Galligan
C. Norman Gillis
Thomas P. Green
R. Adron Harris
J. Paul Hieble
Stephen G. Holtzman
Jerry B. Hook
Edwin K. Jackson
E. H. Jeffery
Kenneth M. Johnson
George J. Kaloyanides
Terry Kenakin
David D. Ku
George E. Lindenmayer

Benedict R. Lucchesi
Thomas A. McCalden
Robert B. McCall
Donald E. McMillan
William H. Morse
Hasan Mukhtar
Kevin Mullane
L. Charles Murrin
Jose M. Musacchio
Norton H. Neff
Jon A. Norman
Eliot H. Ohlstein
Achilles J. Pappano
Gavril W. Pasternak
Larissa A. Pohorecky
Garth Powis
Russell A. Prough
David Raeburn
Saul M. Schanberg
Paul J. Silver
David J. Smith
Roger P. Smith
Roger D. Spealman

Jack W. Strandhoy
John L. Sutko
Boris Tabakoff
David A. Taylor
Thomas R. Tephly
Richard E. Tessel
Martin J. M. C. Thoolen
Pieter B. M. W. M. Timmermans
Myron L. Toews
Theodore J. Torphy
John T. Turner
Norman J. Uretsky
Paul M. Vanhoutte
Robert E. Vestal
Larry A. Walker
Martin A. Wasseman
R. Clinton Webb
Michael Williams
Patricia D. Williams
Martin M. Winbury
Raymond J. Winquist
Alice M. Young

BOARD OF PUBLICATIONS TRUSTEES

Kenneth E. Moore, *Chairman*: Arthur J. Atkinson, Jr., William A. Catterall, Marlene L. Cohen, T. Kendall Harden, John A. Harvey, Horace Loh, Marcus M. Reidenberg, Robert E. Stitzel, Vincent G. Zannoni

EXECUTIVE OFFICER OF THE SOCIETY

Kay A. Croker

THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS (ISSN 0022-3565) is an official publication of The American Society for Pharmacology and Experimental Therapeutics and is published monthly beginning in January by Williams & Wilkins, 428 E. Preston Street, Baltimore, MD 21202-3993. Second class postage paid at Baltimore, MD and at additional mailing offices. Four volumes are published each year. Each volume contains three numbers. POSTMASTER: Send address changes to THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, 428 E. Preston St., Baltimore, MD 21202-3993. Indexed by *Current Contents*, *Index Medicus*, *Excerpta Medica*, and *BioSciences Information Service*. Subscription rates \$180.00 (\$245.00 foreign), institutions \$310.00 (\$375.00 foreign), single copy \$19.00 (\$23.00 foreign). Prices are subject to change. The GST Tax Number for Canadian subscribers is 123394371. Copyright © 1992 by The American Society for Pharmacology and Experimental Therapeutics.