

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

Alan Cowan
Billy R. Martin
David J. Smith

Autonomic Pharmacology

Richard A. Gillis
Suzanne G. Laychock
Kenneth P. Minneman

Behavioral Pharmacology

Linda A. Dykstra
Lewis S. Seiden

Cardiovascular Pharmacology

Gregory D. Fink
Allan M. Lefer
Benedict R. Lucchesi
Harry S. Margolius
R. Clinton Webb

Cellular and Molecular

Pharmacology

Toshio Narahashi
Ronald P. Rubin
George B. Weiss

Chemotherapy / Gene Therapy

Jonathan Maybaum

Developmental Pharmacology

Hazel H. Szeto

Drug Metabolism and

Disposition

Arthur Cho
David Kupfer
Grant R. Wilkinson

Endocrine Pharmacology

Paula H. Stern

Gastrointestinal Pharmacology

David R. Brown
James J. Galligan

Immunopharmacology

John W. Hadden

Neuropharmacology

S. J. Enna
Glen R. Hanson
Barry J. Hoffer
Michael J. Kuhar
David R. Manning

Prostaglandins, Leukotrienes

and Other Eicosanoids
K. U. Malik

Pulmonary Pharmacology

Mannfred A. Hollinger

Renal Pharmacology

Margaret A. Acara
Jack W. Strandhoy

Toxicology

Curtis D. Klaassen

EDITORIAL ADVISORY BOARD

Martin W. Adler
Edson X. Albuquerque
Julius C. Allen
William D. Atchison
Leslie Ballou
Paul Bass
Bruce P. Bean
Donald M. Bers
C. Paul Bianchi
Vernon S. Bishop
Floyd E. Bloom
Peter G. Bradford
Craig D. Brater
David Brooks
Steve R. Childers
Theodore J. Cicero
Ronald G. Coffey
Marlene L. Cohen
Allan C. Collins
Charles R. Craig
Kathryn A. Cunningham
Cathy A. Davison
William C. de Groat
Gary E. DeLander
Louis Diamond
Walter R. Dixon
Thomas V. Dunwiddie
Jerry M. Farley
Harold Feinberg
Dan J. Feller
John Ferkany
Kevin Finnegan
Stephen K. Fisher
Garret A. FitzGerald

Stephen F. Flaim
Jerome H. Fleisch
Alan Frazer
Peter A. Friedman
Ray W. Fuller
Kathleen Giacomini
Alasdair Gilfillan
Kathleen Grant
Thomas P. Green
Thomas M. Guenther
R. Adron Harris
Thomas G. Heffner
J. Paul Hieble
Ronald Hines
Paula L. Hoffman
Jordan Holtzman
Stephen G. Holtzman
Jerry B. Hook
Joseph R. Hume
Edwin K. Jackson
E. H. Jeffery
Kenneth M. Johnson
Peter W. Kalivas
George J. Kaloyanides
Nancy Kanagy
Robert S. Kass
Terry Kenakin
Lewis B. Kinter
David D. Ku
Roberto Levi
George E. Lindenmayer
James Lohr
Irwin Lucki
Joseph Lynch

Robert B. McCall
John R. McCullough
Donald E. McMillan
Kaushik D. Meisheri
Daniel T. Monaghan
William H. Morse
Hasan Mukhtar
Albert E. Munson
L. Charles Murrin
Norton H. Neff
Kim A. Neve
Jon A. Norman
Eliot H. Ohlstein
Achilles J. Pappano
Gavril W. Pasternak
William H. Percy
Michael Piascik
Garth Powis
Kenzie L. Preston
Russell A. Prough
Richard A. Rabin
David Raeburn
Satish Rattan
George A. Ricaurte
Sandra C. Roerig
Michael C. Sanguinetti
Saul M. Schanberg
Christopher J. Schmidt
Michal L. Schwartzman
Ronald Shebuski
Paul J. Silver
Kenny J. Simansky
Philip L. Smith

Roger P. Smith
Edward E. Soltis
Patricia K. Sonsalla
Roger D. Speakman
John L. Sutko
Boris Tabakoff
David A. Taylor
Milt Teitler
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
Bradley J. Udem
Norman J. Uretsky
Paul M. Vanhoutte
Robert E. Vestal
Larry A. Walker
Martin A. Wasserman
Margaret T. Weis
Sandra P. Welch
H. Steve White
Michael Williams
Patricia D. Williams
Steve Wilson
Martin M. Winbury
Raymond J. Winquist
Jeffrey M. Witkin
Bryan K. Yamamoto
Alice M. Young
Edward J. Zambraski
Michael J. Zigmond

BOARD OF PUBLICATIONS TRUSTEES

T. Kendall Harden, *Chairman*: William O. Berndt, D. Craig Brater, David B. Bylund, William A. Catterall, Marlene L. Cohen, Raymond Dingleline, John A. Harvey, Raymond F. Novak, Marcus M. Reidenberg

EXECUTIVE OFFICER OF THE SOCIETY

Kay A. Croker