

Volume 257
April-June
1991

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

Eva King Killam

ASSISTANT EDITOR

Mannfred A. Hollinger

EDITORS FOR SPECIFIC FIELDS

Analgesia and Drug Abuse
William L. Dewey
Billy Martin

Autonomic Pharmacology
Robert R. Ruffolo, Jr.
Robert E. Stitzel

Behavioral Pharmacology
John A. Harvey

Cardiovascular Pharmacology
Leslie E. Bailey
Henry R. Besch, Jr.
Theodore M. Brody
Sue Piper Duckles

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
Jordan L. Holtzman

Endocrine Pharmacology
Paula H. Stern

Gastrointestinal Pharmacology
Timothy S. Gaginella
Frank Porreca

Immunopharmacology
Sydney Spector

Neuropharmacology
Edmund G. Anderson
David B. Bylund
S. J. Enna
Charles O. Rutledge

*Prostaglandins, Leukotrienes
and Other Eicosanoids*
Guy C. Le Breton
K. U. Malik

Pulmonary Pharmacology
Mannfred A. Hollinger

Renal Pharmacology
William O. Berndt

Toxicology
Curtis D. Klaassen

EDITORIAL ADVISORY BOARD

Margaret Acara
Martin W. Adler
Edson X. Albuquerque
Julius C. Allen
James B. Appel
Lewis Aronow
William D. Atchison
Albert J. Azzaro
Robert L. Balster
Paul Bass
Michael A. Beaven
Donald M. Bers
John A. Bevan
C. Paul Bianchi
David A. Blake
Alan S. Bloom
Floyd E. Bloom
Peter G. Bradford
Carl K. Buckner
Theodore J. Cicero
Marlene L. Cohen
Charles R. Craig
Luigi X. Cubeddu
E. E. Daniel
William C. de Groat
Louis Diamond
Gerald F. DiBona
Robert J. Dinerstein
Walter R. Dixon

J. W. Downie
Linda Dykstra
Hugh L. Evans
Jerry M. Farley
Harold Feinberg
Gregory D. Fink
Stephen K. Fisher
Garret A. FitzGerald
Ray W. Fuller
Gerard L. Gebber
James W. Gibb
C. Norman Gillis
Shri N. Giri
Thomas P. Green
Garrett J. Gross
R. Adron Harris
Richard J. Head
J. Paul Hieble
Stephen G. Holtzman
Jerry B. Hook
E. H. Jeffery
Robert M. Joy
George J. Kaloyanides
Alexander G. Karczmar
Terry Kenakin
Conan Kornetsky
Edwin A. Kroeger
David D. Ku
Suzanne G. Laychock

Tony J.-F. Lee
Roberto Levi
George E. Lindenmayer
Horace H. Loh
Benedict R. Lucchesi
Thomas A. McCalden
Robert B. McCall
Donald E. McMillan
W. H. Morse
Hasan Mukhtar
Kevin Mullane
L. Charles Murrin
Jose M. Musacchio
Allen H. Neims
Jon A. Norman
Robert F. O'Dea
Achilles J. Pappano
Leslie V. Parise
Gavril W. Pasternak
William A. Pettinger
Larissa A. Pohorecky
Garth Powis
Donald V. Priola
Russell A. Prough
David Raeburn
Arthur Raines
Arnold Schwartz
Lewis S. Seiden
Paul J. Silver

David J. Smith
Roger P. Smith
Roger D. Speakman
Janice L. Stickney
John L. Sutko
Boris Tabakoff
A. E. Takemori
David A. Taylor
Robert E. Ten Eick
Thomas R. Tephly
Richard E. Tessel
Martin J. M. C. Thoolen
Pieter B. M. W. M. Timmermans
Myron L. Toews
Theodore J. Torphy
U. Trendelenburg
Norman J. Uretsky
Paul M. Vanhoutte
Larry A. Walker
Martin A. Wasserman
R. Clinton Webb
I. M. Weiner
Richard M. Welch
Grant R. Wilkinson
Michael Williams
Martin M. Winbury
Raymond J. Winquist
Barry B. Wolfe
Henry I. Yamamura

BOARD OF PUBLICATIONS TRUSTEES

Joel G. Hardman, *Chairman*: Arthur J. Atkinson, Jr., Marlene L. Cohen, T. Kendall Harden, Eva King Killam, Horace Loh, Kenneth E. Moore, Marcus M. Reidenberg, Robert E. Stitzel, Vincent G. Zannoni

EXECUTIVE OFFICER OF THE SOCIETY

Kay Croker