

# MOLECULAR PHARMACOLOGY

EDITOR: T. KENDALL HARDEN, *University of North Carolina*

ASSOCIATE EDITORS: RAYMOND J. DINGLEDINE, *University of North Carolina*  
R. L. JULIANO, *University of North Carolina*  
JAMES W. PUTNEY, JR., *National Institute of Environmental Health Sciences*  
RONALD G. THURMAN, *University of North Carolina*

EDITORIAL ASSISTANT: ANN T. MCCUTCHAN

## EDITORIAL AND ADVISORY BOARD

EARL F. BARIL, *Worcester Foundation for Experimental Biology*

JOSEPH R. BERTINO, *Sloan-Kettering Institute for Cancer Research*

N. J. M. BIRDSALL, *National Institute for Medical Research, Mill Hill*

JOËL BOCKAERT, *Centre CNRS-INSERM de Pharmacologie et Endocrinologie, Montpellier, France*

CHARLES O. BROSTROM, *UMDNJ-Robert Wood Johnson Medical School*

JOAN HELLER BROWN, *University of California, San Diego*

GILLIAN BURGESS, *Sandoz Institute for Medical Research*

MARC G. CARON, *Duke University*

BRIAN M. COX, *Uniformed Services University of the Health Sciences*

IAN CREESE, *Rutgers-State University of New Jersey*

JOHN W. DALY, *National Institutes of Health*

RICHARD A. F. DIXON, *Texas Biotechnology Corporation*

FREDERICK J. EHLERT, *University of California, Irvine*

STEVEN K. FISHER, *University of Michigan*

ALFRED G. GILMAN, *University of Texas Health Sciences Center, Dallas*

ROBERT I. GLAZER, *Georgetown University*

DORA B. GOLDSTEIN, *Stanford University*

FRANK J. GONZALEZ, *National Institutes of Health*

MICHAEL M. GOTTESMAN, *National Cancer Institute*

F. PETER GUENGERICH, *Vanderbilt University*

PAUL A. INSEL, *University of California, San Diego*

KARL H. JAKOBS, *University of Heidelberg*

ERIC F. JOHNSON, *Scripps Clinic and Research Foundation*

GARY JOHNSON, *National Jewish Center, Denver*

LAURENCE S. KAMINSKY, *State of New York Department of Health*

LEMONT B. KIER, *Medical College of Virginia*

DONALD W. KUFE, *Dana Farber Cancer Institute*

ROBERT J. LEFKOWITZ, *Duke University*

WAYNE LEVIN, *Hoffmann-La Roche Inc.*

LEE E. LIMBIRD, *Vanderbilt University*

THOMAS M. LINCOLN, *University of South Alabama*

GILDA H. LOEW, *Molecular Research Institute*

JAMES O. MCNAMARA, *Duke University*

MICHAEL E. MAGUIRE, *Case Western Reserve University*

VINCENT MANGANIELLO, *National Institutes of Health*

KEITH W. MILLER, *Harvard University*

RICHARD J. MILLER, *University of Chicago*

KENNETH P. MINNEMAN, *Emory University*

PERRY B. MOLINOFF, *University of Pennsylvania*

STEFAN R. NAHORSKI, *University of Leicester*

RICHARD W. OLSEN, *University of California, Los Angeles*

PAUL R. ORTIZ DE MONTELLANO, *University of California, San Francisco*

MICHAEL J. PEACH, *University of Virginia Health Sciences Center*

RICHARD M. PHILPOT, *National Institute of Environmental Health Sciences*

ALAN POLAND, *University of Wisconsin*

H. P. RANG, *Sandoz Institute for Medical Research*

TIMOTHY J. RINK, *Amylin Corporation*

MICHAEL SCHIMERLIK, *Oregon State University*

ARNOLD SCHWARTZ, *University of Cincinnati*

KENNETH B. SEAMON, *Food and Drug Administration*

IAN C. P. SMITH, *National Research Council of Canada, Ottawa*

GARY L. STILES, *Duke University*

JOHN F. TALLMAN, *Neurogen Corporation*

PALMER TAYLOR, *University of California, San Diego*

KENNETH D. TEW, *Fox Chase Cancer Center, Philadelphia*

DAVID J. TRIGGLE, *SUNY at Buffalo*

JAMES R. TRUDELL, *Stanford University*

O. H. VIVEROS, *Wellcome Research Laboratories*

MICHAEL J. WARING, *University of Cambridge*

HAREL WEINSTEIN, *Mount Sinai School of Medicine*

JACK N. WELLS, *Vanderbilt University*

BARRY B. WOLFE, *Georgetown University*

## BOARD OF PUBLICATIONS TRUSTEES

JOEL G. HARDMAN, *Chairman*

KAY A. CROKER, *Executive Officer*

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