Eric L. Barker, Editor

ASSOCIATE EDITORS

Stephen P. Alexander
Nottingham, United Kingdom

MacDonald J. Christie
Sydney, Australia

Robert Dantzer
Houston, Texas

Lynette Daws
San Antonio, Texas

Timothy Esbenshade
Abbott Park, Illinois

Charles France
San Antonio, Texas

Christopher J. Garland
Oxford, United Kingdom

Michael Gottesman
Bethesda, Maryland

Birgitle Holst
Copenhagen, Denmark

Vivian Hook
San Diego, California

Paul A. Insel
La Jolla, California

Yoshio Hiroshi
Yokohama, Japan

Lori L. Isom
Ann Arbor, Michigan

Hyunyoung (Young) Jeong
Chicago, Illinois

Habibeh Khoshbouei
Gainesville, Florida

Markku Koulu
Turku, Finland

Finn Olay Levy
Oslo, Norway

Qiang Ma
Morgantown, West Virginia

Martin Michel
Ingelheim, Germany

Michael Nader
Winston-Salem, North Carolina

Eliot Ohlstein
Glennmore, Pennsylvania

Clive Page
London, United Kingdom

Amin Rostami-Hodjegan
Manchester, United Kingdom

Nancy R. Rusch
Little Rock, Arkansas

Gunnar Schulte
Stockholm, Sweden

Ulf Simonsen
Trige, Denmark

Rhian M. Touyz
Glasgow, United Kingdom

Jeffrey M. Witkin
Indianapolis, Indiana

Richard D. Ye
Shanghai, China

ASPET BOARD OF PUBLICATIONS TRUSTEES

Mary Vore, Chair; Eric L. Barker, Jack Bergman, Lynette Daws, Beverley Greenwood-Van Meerweld, Michael F. Jarvis, J. Steven Leeder, Kathryn E. Meier, Emily E. Scott, Jeffrey C. Stevens, Kenneth D. Tew, Judith A. Siuciak, ex officio; and Joseph Jilik, ex officio Young Scientist Representative

ASPET EXECUTIVE OFFICER: Judith A. Siuciak

JOURNALS DIRECTOR: Richard Dodenhoff

PEER REVIEW MANAGER: Jacqueline Perry

Editorial supervision of Pharmacological Reviews is shared jointly with the British Pharmacological Society and the Scandinavian Pharmacological Societies.

Pharmacological Reviews (ISSN 1521-0081) is published quarterly in January, April, July, and October online only by the American Society for Pharmacology and Experimental Therapeutics, 1801 Rockville Pike, Suite 210, Rockville, MD 20852-1633. E-mail: subscriptions@aspet.org. ASPET web site: aspet.org. Journal web site: pharmrev.aspetjournals.org. Subscription rates at aspetjournals.org/site/subscriptions/index.xhtml for rates. Subscriptions: Contact the ASPET Subscriptions Dept., 1801 Rockville Pike, Suite 210, Rockville, MD 20852-1633. Telephone: 301-634-7061. Fax: 301-634-7063. E-mail: subscriptions@aspet.org. ASPET web site: aspet.org. Journal web site: pharmrev.aspetjournals.org. Information/permissions-request. Photocopying or printing articles beyond that permitted by Sections 107 and 108 of the U.S. Copyright Law is allowed, provided that the $35.00-per-copy fee is paid through the CCC. Classroom photocopying is permitted at no fee, provided that students are not charged more than the cost of duplication. This consent does not extend to other kinds of copying. Reproduction of any portion of an article for subsequent republication requires permission of ASPET.

Reprints of individual articles are available from the journal web site using the pay-per-view option for nonsubscribers. Reprints in large quantities for commercial or academic use may be purchased from ASPET. For information and prices, call 301-634-7063.

Copyright information: Pharmacological Reviews is copyrighted by the American Society for Pharmacology and Experimental Therapeutics. Permissions for permission to photocopy entire articles from Pharmacological Reviews, see www.copyright.com or contact the Copyright Clearance Center (CCC), Inc., 222 Rosewood Dr., Danvers, MA 01923. Telephone: 978-750-8400. For permission to reprint portions of articles such as figures and tables or to reprint entire articles in a thesis or dissertation, see https://www.aspet.org/aspet/journals/journals-information/permissions-request. Photocopying or printing articles beyond that permitted by Sections 107 and 108 of the U.S. Copyright Law is allowed, provided that the $35.00-per-copy fee is paid through the CCC. Classroom photocopying is permitted at no fee, provided that students are not charged more than the cost of duplication. This consent does not extend to other kinds of copying. Reproduction of any portion of an article for subsequent republication requires permission of ASPET.

Disclaimer: The statements and opinions contained in the articles of Pharmacological Reviews are solely those of the individual authors and contributors and not of the American Society for Pharmacology and Experimental Therapeutics. The appearance of advertisements in the journal is not a warranty, endorsement, or approval of the products or their safety. The American Society for Pharmacology and Experimental Therapeutics disclaims responsibility for any injury to persons or property resulting from any ideas or products referred to in any article or advertisement.

Copyright © 2019 by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved.

The appearance of advertisements in the journal is not a warranty, endorsement, or approval of the products or their safety. The American Society for Pharmacology and Experimental Therapeutics disclaims responsibility for any injury to persons or property resulting from any ideas or products referred to in any article or advertisement.

Copyright © 2019 by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved.