

PHARMACOLOGICAL REVIEWS

A Publication of the American Society for Pharmacology and Experimental Therapeutics

Louis S. Goodman, Founding Editor, 1949

Lynette C. Daws, Editor

ASSOCIATE EDITORS

Stephen P. Alexander
Nottingham, United Kingdom

Andrew Baker
United Kingdom

Erin Calipari
Nashville, Tennessee

Robert Dantzer
Houston, Texas

Kay Double
Sydney, Australia

Charles France
San Antonio, Texas

Michelle Glass
Dunedin, New Zealand

Michael Gottesman
Bethesda, Maryland

Jukka Hakkola
Oulu, Finland

Birgitte Holst
Copenhagen, Denmark

Vivian Hook
San Diego, California

Paul A. Insel
La Jolla, California

Hyunyoung (Young) Jeong
Chicago, Illinois

Habibeh Khoshbouei
Gainesville, Florida

Finn Olav Levy
Oslo, Norway

Francesca Levi-Schaffer
Jerusalem, Israel

Sara Liin
Linköping, Sweden

Martin Michel
Ingelheim, Germany

Eliot Ohlstein
Glenmore,
Pennsylvania

Clive Page
London, United Kingdom

John D. Schuetz
Memphis, Tennessee

Gunnar Schulte
Stockholm, Sweden

Ulf Simonsen
Trige, Denmark

Harald Sitte
Vienna, Austria

Rhian M. Touyz
Glasgow, United Kingdom

Joanna Wang
Seattle, Washington

Richard D. Ye
Shanghai, China

SOCIAL MEDIA AMBASSADORS

Lindsey Galbo-Thomma
Wake Forest Univ.,
North Carolina

Rheure Lopez
Univ. of Glasgow,
United Kingdom

Joshua Lott
Merz Aesthetics,
North Carolina

Karla Neves
Univ. of Strathclyde,
United Kingdom

PUBLICATIONS COMMITTEE

Kenneth D. Tew, *Chair*; Laura Bohn, Lynette Daws, Xinxin Ding, Beverley Greenwood-Van Meerveld, Michael F. Jarvis, Adriano Marchese, Gary O. Rankin, John J.G. Tesmer, Susan Wood, Ai-Ming Yu, and Mohamed Ghonim, *ex officio Young Scientist Representative*

ASPET EXECUTIVE OFFICER: Dave Jackson

Publications Director: Maria Pasho *Senior Journals Operations Manager*: Jacqueline Perry *Peer Review Coordinator*: Kristine Styron

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 bimonthly in January, March, May, July, September, and November 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. GST Tax Number for Canadian subscribers: BN:13489 2330 RT.

Indexed or abstracted by: *Biological Abstracts*, *BIOSIS Previews Database*, *Biosciences Information Service*, *Current Contents®/Life Sciences*, *EMBASE/Excerpta Medica*, *Index Medicus*, *Index to Scientific Reviews®*, *Medical Documentation Service®*, *Reference Update®*, *Research Alerts®*, *Science Citation Index®*, and *SciSearch®*.

Journal and ASPET office: 1801 Rockville Pike, Suite 210, Rockville, MD 20852-1633. Telephone: 301-634-7060. Fax: 301-634-7061. E-mail: pharmrev@aspet.org. ASPET web site: aspet.org. Journal web site: pharmrev.aspetjournals.org.

Editorial matters should be addressed to Lyn Daws, Editor, *Pharmacological Reviews*, at pharmrev@aspet.org.

Instructions to Authors: See pharmrev.aspetjournals.org for the Instructions to Authors and information on ASPET Authorship Responsibility, Financial Disclosure, and Chemical Structure policies.

Subscriptions: Contact the ASPET Subscriptions Dept., 1801 Rockville Pike, Suite 210, Rockville, MD 20852-1633. Telephone: 301-634-7782. Fax: 301-634-7061. E-mail: subscriptions@aspet.org. See aspetjournals.org/site/subscriptions/index.xhtml for rates.

Change of IP addresses: ASPET will help institutional subscription administrators update IP address ranges as requested. Subscription administrators can make these changes at the journal site using their account user name and password.

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. 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 © 2023 by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved.