

The Journal of Pharmacology and Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

Founded by John J. Abel - 1908

Beverley Greenwood-Van Meerveld *Editor*

Joe Blumer *Minireviews Editor*

ASSOCIATE EDITORS

Qin Chen
Carolyn Fairbanks
Michael Frohman
James Gallo

Eric R. Gross
Yuichi Hattori
Fadi Khasawneh
M.N.V. Ravi Kumar

Lawrence H. Lash
Roberto Levi
Gary O. Rankin
Rheal Towner

Kent Vrana
Raymond J. Winquist
Susan K. Wood

EDITORIAL ADVISORY BOARD

Geoffrey W. Abbott
François Alhenc-Gelas
Bradley T. Andresen
Thomas M. Argentieri
Jack Bergman
Andrea Cignarella
Gregory T. Collins
Traci A. Czyzyk
Piyali Dasgupta

Annarita Di Lorenzo
Steven J. Feinmark
Stephen F. Flaim
Kerry Goralski
J. Silvio Gutkind
Edwin K. Jackson
Yagna Jarajapu
Emily M. Jutkiewicz
Mark R. Kelley

Lewis B. Kinter
Anna Malykhina
Lauren May
Giorgio Minotti
Daniel J. Morgan
Mahmood S. Mozaffari
Tetsuo Nakata
D. Samba Reddy
Gaetano Santulli

Kelly Standifer
David A. Taylor
Qiming Jane Wang
Jack Yalowich
Hideyuki Yamawaki
Elizabeth Yeh

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 K. Wood, Ai-Ming Yu, and Mohamed Ghonim, *ex officio Young Scientist Representative*

ASPET EXECUTIVE OFFICER: Dave Jackson

Publications Director: Maria Pasho *Journal Operations Manager:* Tracey Kirkbride

Peer Review Coordinator: Suzanne Cholwek

The Journal of Pharmacology and Experimental Therapeutics (ISSN 1521-0103) is published monthly 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: jpet.aspetjournals.org. Subscription rates at aspet-journals.org/site/subscriptions/index.xhtml. GST Tax Number for Canadian subscribers: BN:13489 2330 RT.

Indexed or abstracted by: *Biochemistry & Biophysics Citation Index*®, *Biological Abstracts*, *BIOSIS Previews Database*, *Bio-Sciences Information Services*, *Current Awareness in Biological Sciences*, *Current Contents*®/Life Sciences, *EMBASE/Excerpta Medica*, *Index Medicus*, *Medical Documentation Service*®, *PsycINFO*, *Reference Update*®, *Research Alerts*®, *Science Citation Index*®, *SciSearch*®, and *SIIC Data Bases*.

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

Editorial matters should be addressed to Dr. Beverley Greenwood-Van Meerveld, Editor, *The Journal of Pharmacology and Experimental Therapeutics*, at the above address.

Instructions to Authors: See jpet.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: *The Journal of Pharmacology and Experimental Therapeutics* is copyrighted by the American Society for Pharmacology and Experimental Therapeutics. All permissions requests are processed through the Copyright Clearance Center (CCC), Inc. at <https://www.copyright.com/get-permissions>. 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 *The Journal of Pharmacology and Experimental Therapeutics* 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 © 2024 by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved.