The Journal of Pharmacology and Experimental Therapeutics
A Publication of the American Society for Pharmacology and Experimental Therapeutics
Founded by John J. Abel - 1908

Kenneth D. Tew Editor
Joe Blumer, Minireviews Editor

ASSOCIATE EDITORS
Salvatore Cuzzocrea
Yuichi Hattori
Mark R. Kelley
Andreas Papapetropoulos

Michael Frohman
John Hayes
William C. deGroat
Lewis Kinter
Achilles J. Pappano

James Gallo
Lawrence H. Lash
Frederick J. Ehlerth
George F. Koob
Philip C. Smith

EDITORIAL ADVISORY BOARD
Geoffrey W. Abbott
Anita Di Lorenzo
S. Stevens Negus III

Thomas J. Abbruscato
William C. deGroat
Hiroyuki Fukui

Edson X. Albuquerque
Anita Di Lorenzo
S. Jamal Mustafa

Thomas M. Argentiari
Frederick J. Ehlerth
Hasan Mukhtar

John Auchampach
Steven J. Feinmark
Giorgio Minotti

Bjoern Bauer
Stephen F. Plain
Michael Nader

Jack Bergman
Hiroiyuki Fukui
S. Stevens Negus III

Andrea Cignarella
Paul Heerdt
Nazareno Paolocci

Ann Daly
Hiroyuki Fukui

Yuichi Hattori
Paul Heerdt

Roberto Levi
Joey W. Jackson

Gerard Marek
David P. Welch

Gary O. Rankin

Sandra P. Welch

Andreas Papapetropoulos

Raymond J. Winquist

Kent Vrana

Susan K. Wood

BOARD OF PUBLICATIONS TRUSTEES
Mary Vore, Chair; Eric L. Barker, Jack Bergman, Lynette Daws, Beverley Greenwood-Van Meerveld, J. Steven Leeder, Kathryn E. Meier, Emily Scott, Jeffrey C. Stevens, Kenneth D. Tew, Judith A. Siuciak, ex officio; and Joseph Jilik, Student Representative

ASPET EXECUTIVE OFFICER: Judith A. Siuciak
Journals Director: Richard Dodenhoff Peer Review Manager: Jacqueline Perry Senior Peer Review Coordinator: Cassie Wood

The Journal of Pharmacology and Experimental Therapeutics (ISSN 1521-0103) is published monthly online only by the American Society for Pharmacology and Experimental Therapeutics, 9650 Rockville Pike, Bethesda, MD 20814-3995. E-mail: subscriptions@aspet.org. ASPET web site: aspet.org. Journal web site: jpet.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: Biochemistry & Biophysics Citation Index®, Biological Abstracts, BIOSIS Previews Database, BioSciences Information Services, Current Awareness in Biological Sciences, Current Contents®/Life Sciences, EMBASE/Excerpta Medica, Index Medicus, Medical Documentation Service®, PsycINFO, Reference Update®, Research Alert®, Science Citation Index®, SciSearch®, and SIC Data Bases. Journal and ASPET office: 9650 Rockville Pike, Bethesda, MD 20814-3995. Telephone: 301-634-7060. Fax: 301-634-7061. E-mail: info@aspet.org. ASPET web site: aspet.org. Journal web site: jpet.aspetjournals.org. The American Society for Pharmacology and Experimental Therapeutics is copyrighted by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved.

Copyright information: The Journal of Pharmacology and Experimental Therapeutics is copyrighted by the American Society for Pharmacology and Experimental Therapeutics. For permission to photocopy entire articles from The Journal of Pharmacology and Experimental Therapeutics, 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 www.aspet.org/webforms.aspx?ekfrm=84. 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 in large quantities for commercial or academic use may be purchased from ASPET. For information and prices, call 301-634-7063.

Disclaimers: 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 © 2018 by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved.