

MOLECULAR PHARMACOLOGY

A Publication of the American Society for Pharmacology and Experimental Therapeutics

Founded by Avram Goldstein—1965

John J. G. Tesmer, Editor

Martin C. Michel, Deputy Editor

ASSOCIATE EDITORS

Lakshmi Devi, Raymond Evers, Kasper Hansen, John R. Hepler, Sridhar Mani,

Andrew Morris, Manojkumar Puthenveedu, Alan Smrcka, and Jin Zhang

Adriano Marchese, *Minireview Editor*

David Gewirtz, *Emerging Concepts Editor*

Martin C. Michel, Harvey J. Motulsky, *Statistics Editors*

EDITORIAL AND ADVISORY BOARD

Katerina Akassoglou	Frederick J. Ehler	Eric F. Johnson	James O. McNamara	Arun Shukla
Jelena Baranovic	Michael Freissmuth	Mathew V. Jones	Laurence J. Miller	J. Benita Sjogren
Giuseppe Battaglia	Liwu Fu	Marcelo Kazanietz	Graeme Milligan	Lauren Slosky
Jeffrey L. Benovic	Adolfo García-Sáinz	Terry Kenakin	Ole Valente Mortensen	Gregory Tall
Nigel J. M. Birdsall	Ulrik Gether	Brian K. Kobilka	Benjamin Myers	Nikoleta Tsvetanova
Laura Bohn	Alisa Glukhova	Evi Kostenis	Senthil Natesan	Andrew Tobin
Wendy Bollag	Frank J. Gonzalez	Andrew Kruse	Richard R. Neubig	John Traynor
Joan Heller Brown	Michael M. Gottesman	Rakesh Kulkreja	Kim A. Neve	JoAnn Trejo
Moritz Bünemann	Patrick Griffin	Nevin Lambert	Eric Ortlund	Joanne Wang
Thomas Burris	Grace Guo	Philip Lazarus	Rennolds S. Ostrom	David J. Waxman
Jennifer Cash	J. Silvio Gutkind	L. M. Fredrik	Jean-Philippe Pin	Jurgen Wess
Irene Coin	Randy A. Hall	Leeb-Lundberg	Sudarshan Rajagopal	Wen Xie
Niels Decher	Ryan Hibbs	Henry Lester	Cheryl Rockwell	Smitra Yadav
Mark Dell'Acqua	Miwako Kato Homma	Lian Li	Michael A. Rogawski	Richard D. Ye
Jerod Denton	Nato Hoshi	Angeline M. Lyon	Bryan L. Roth	Lixia Yue
Henrik Dohlman	Lori Isom	Ken Mackie	Gunnar Schulte	Venetia Zachariou
George Dubyak	Kenneth A. Jacobson	Aashish Manglik	Shivendra V. Singh	Michael Zhu

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 *Journal Operations Manager*: Tracey Kirkbride *Peer Review Coordinator*: Suzanne Cholwek

Molecular Pharmacology (ISSN 1521-0111) is published monthly online only (two volumes per year beginning in January and July) 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. Journalweb site: molpharm.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*, *Current Awareness in Biological Sciences*, *Current Contents*®/*Life Sciences*, *EMBASE/Excerpta Medica*, *Index Medicus*, *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: info@aspet.org. ASPET web site: aspet.org. Journal web site: molpharm.aspetjournals.org.

Editorial matters should be addressed to Dr. John J. G. Tesmer Editor, *Molecular Pharmacology*, at molpharm@aspet.org.

Instructions to Authors: See molpharm.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: *Molecular Pharmacology* 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 *Molecular Pharmacology* 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.