MOLECULAR PHARMACOLOGY
A Publication of the American Society for Pharmacology and Experimental Therapeutics
Founded by Auram Goldstein—1965

Stephen F. Traynelis, Editor

ASSOCIATE EDITORS
Arthur Christopoulos, Stuart Cull-Candy, Paul Dent, Haian Fu, Lee M. Graves, John R. Hepler, Jeanne Nerbonne, Hugh Rosen, and Mary Vore
Laura M. Bohn, Minireview Editor

EDITORIAL AND ADVISORY BOARD

Giuseppe Battaglia
Jeffrey L. Benovic
Nigel J. M. Birdsall
Julie Blendy
Kendall J. Blumer
Michel Bouvier
Cecilia Bouzat
Nigel Bunnett
Thomas P. Burris
William A. Catterall
Srikumar Chellappan
Hong-Zhuang Chen
Richard B. Clark
Susan P. C. Cole
Adrienne Cox
Niel Decher
Phillip A. Dennis
Jian Ding
George Dubyak
Ronald S. Duman
Frederick J. Ehler
Raymond Evers
Michael Freissmuth
Liwu Fu
Yoshiaki Fujii-Kuriyama
Hiroyasu Furukawa
Aurelio Galli
Ulrik Gether
David Gewertz
Aladair Gibb
Catherine Godson
Frank J. Gonzalez
Michael M. Gottesman
Robert M. Graham
Gracie Guo
Masatoshi Higawara
Randi Hall
R. Adron Harris
Johannes Hell
Ellen Hess
Donald Hilgemann
Peter J. Houghton
Hidenori Ichijo
Kenneth A. Jacobson
Andrew Jenkins
Eric F. Johnson
Mathew Jones
Marcelo Kazanietz
Brian K. Kobilka
Herman Koeppel
Richard Kolesnich
Rakesh Kukreja
Ping-Yee Law
Amy Lee
L. M. Fredrik Leeb-Lundberg
Henry Lester
Robin Lester
Lian Li
Zijian Li
Thomas M. Lincoln
Sophie Lotersztajn
Tim Lovenberg
Peter MacKenzie
Ken Mackie
Snidhar Mani
David Manning
Jeffrey Martens
Donald H. Maurice
Andrew McCammon
Dan McGhee
James O. McNamara
Kathryn E. Meier
Martin Michel
Laurence Mullen
Graeme Milligan
Peter Mohler
Neil M. Nathanson
Richard R. Neubig
Kim A. Neve
Robert A. Nicholas
R. Alan North
Eric Ortland
Robert E. Oswald
Gavri W. Pasternak
Taran Patel
Dianne Perez
Jean-Philippe Pin
John J. Reiners, Jr.
Des Richardson
Michael Robinson
Michael A. Rogawski
Bryan L. Roth
Carol A. Rouzer
Arnold E. Ruoho
Jill Siegfried
Shivendra V. Singh
Alan Smreka
Bruno Stieger
John Tesmer
Andrew Thorburn
Andrew Tobin
JoAnn Trejo
David J. Waxman
Jurgen Wess
Michael M. White
Keith Williams
Richard D. Ye
Lixia Yue
Michael Zhu

BOARD OF PUBLICATIONS TRUSTEES
James E. Barrett, Chair; Randy A. Hall, Michael F. Jarvis, Kathryn E. Meier, Edward T. Morgan, Kim A. Neve, David R. Sibley, Stephen F. Traynelis, Jeffrey M. Witkin, and Judith A. Siuciak, ex officio

ASPET EXECUTIVE OFFICER: Judith A. Siuciak
Managing Editor: Jill Filler
Editorial Coordinator: Mary Blackwood

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, 9650 Rockville Pike, Bethesda, MD 20814-3995. E-mail: subscriptions@aspet.org. ASPET web site: aspet.org. Journal web 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®.


Editorial matters should be addressed to Dr. Stephen F. Traynelis, Editor, Molecular Pharmacology, at the above address.

Instructions to Authors: See molpharm.aspetjournals.org for the Instructions to Authors and the ASPET Authorship Responsibility, Financial Disclosure, and Chemical Structure Statement forms.

Subscriptions: Contact the ASPET Subscriptions Dept., 9650 Rockville Pike, Bethesda, MD 20814-3995. 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. For permission to photocopy entire articles from Molecular Pharmacology, 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 $25.00-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 © 2013 by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved.