

DRUG METABOLISM AND DISPOSITION

A Publication of the American Society for Pharmacology and Experimental Therapeutics

Founded by Kenneth C. Leibman—1973

Edward T. Morgan, Editor

ASSOCIATE EDITORS

Wayne L. Backes, Deepak K. Dalvie, Xinxin Ding, Chantal Guillemette, Nina Isoherranen, Laurence S. Kaminsky, J. Steven Leeder, Mary Paine, John D. Schuetz, Bill J. Smith, Jeffrey C. Stevens, Peter W. Swaan, Donald J. Tweedie, and Steven A. Wrighton

SCIENTIFIC ADVISORY BOARD

M.W. Anders, Minor J. Coon, Frederick P. Guengerich, James R. Halpert, Eric F. Johnson, Anthony Y. Lu, Bettie Sue Masters, and Paul R. Ortiz De Montellano

EDITORIAL BOARD MEMBERS

Lauren Aleksunes	Uwe Christians	W. Griffith Humphreys	Peter Ian Mackenzie	Jeffrey Staudinger
Shelby Anderson	William J. Ehlhardt	Magnus Ingelman-Sundberg	Don Mager	Bruno Stieger
Tommy B. Andersson	Raymond Evers	Philip B. Inskip	Qingcheng Mao	Craig Svensson
Pieter P.J. Annaert	Moshe Finel	Margaret O. James	Swati Nagar	Yun K. Tam
Pavel Anzenbacher	Michael B. Fisher	Amit S. Kalgutkar	R. Scott Obach	Mitchell E. Taub
Upendra Argikar	Robert Foti	Thomas Kocarek	K. Sandy Pang	Ronald E. White
Thomas Baillie	Bruno Hagenbuch	Dennis R. Koop	Anna Radominska-Pandya	Larry C. Wienkers
Namandje Bumpus	Robert Hanzlik	Wojciech Krzyzanski	Allan Rettie	Paul Wissel
Michael Cameron	Kathleen Hillgren	Hiroyuki Kusunaga	David S. Riddick	Wen Xie
Thomas K.H. Chang	Ronald N. Hines	Lawrence H. Lash	Melissa Runge-Morris	Aiming Yu
Cuiping Chen	Paul F. Hollenberg	Lois D. Lehman-McKeeman	Emily E. Scott	Su Zeng
Nathan Cherrington	J. Brian Houston	Xingrong Liu	John Gregory Slatter	Donglu Zhang
David D. Christ	Min Huang			Xiao-bo Zhong

BOARD OF PUBLICATIONS TRUSTEES

Mary Vore, *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

Journals Director: Richard Dodenhoff *Peer Review Manager:* Dianne King-McGavin *Senior Peer Review Coordinator:* Mary Blackwood

Drug Metabolism and Disposition (ISSN 1521-009X) is published monthly (one volume per year) 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: dmd.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*, *Bio-Sciences Information Services*, *Current Awareness in Biological Sciences*, *Current Contents/Life Sciences*, *EMBASE/Excerpta Medica*, *Index Medicus*, *International Pharmaceutical Abstracts*, *Medical Documentation Service*®, *Reference Update*®, *Research Alerts*®, *Science Citation Index*®, *SciSearch*®, and *SIIC 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: dmd.aspetjournals.org.

Editorial matters should be addressed to Dr. Edward T. Morgan, Editor, *Drug Metabolism and Disposition*, at the above address.

Instructions to Authors: See dmd.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: *Drug Metabolism and Disposition* is copyrighted by the American Society for Pharmacology and Experimental Therapeutics. For permission to photocopy entire articles from *Drug Metabolism and Disposition*, 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 *Drug Metabolism and Disposition* 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 © 2015 by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved.