

The Journal of
PHARMACOLOGY
And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

March 2014

Vol. 348, No. 3

Contents

| | |
|--|-----|
| HIGHLIGHTED PAPERS | 359 |
| BEHAVIORAL PHARMACOLOGY | |
| ■ Orally Active Opioid μ/δ Dual Agonist MGM-16, a Derivative of the Indole Alkaloid Mitragynine, Exhibits Potent Antiallodynic Effect on Neuropathic Pain in Mice <i>Kenjiro Matsumoto, Minoru Narita, Naotaka Muramatsu, Terumi Nakayama, Kaori Misawa, Mariko Kitajima, Kimihito Tashima, Lakshmi A. Devi, Tsutomu Suzuki, Hiromitsu Takayama, and Syunji Horie</i> | 383 |
| ■ Methamphetamine-Like Discriminative-Stimulus Effects of Nicotinic Agonists <i>Rajeev I. Desai and Jack Bergman</i> | 478 |
| CARDIOVASCULAR | |
| ■ G Protein-Coupled Bile Acid Receptor 1 Stimulation Mediates Arterial Vasodilation through a $K_{Ca}1.1$ (BK_{Ca})-Dependent Mechanism <i>Ryan M. Fryer, Khing Jow Ng, Suzanne G. Nodop Mazurek, Lori Patnaude, Donna J. Skow, Akalushi Muthukumarana, Kyle E. Gilpin, Roger M. Dinallo, Daniel Kuzmich, John Lord, Sulagna Sanyal, Hui Yu, Christian Harcken, Matthew A. Cerny, Eugene R. Hickey, and Louise K. Modis</i> | 421 |
| ■ 20-HETE Regulates the Angiogenic Functions of Human Endothelial Progenitor Cells and Contributes to Angiogenesis In Vivo <i>Li Chen, Rachel Ackerman, Mohamed Saleh, Katherine H. Gotlinger, Michael Kessler, Lawrence G. Mendelowitz, John R. Falck, Ali S. Arbab, A. Guillermo Scicli, Michal L. Schwartzman, Jing Yang, and Austin M. Guo</i> | 442 |
| CELLULAR AND MOLECULAR | |
| ■ Rare Human Nicotinic Acetylcholine Receptor $\alpha 4$ Subunit (<i>CHRNA4</i>) Variants Affect Expression and Function of High-Affinity Nicotinic Acetylcholine Receptors <i>T. D. McClure-Begley, R. L. Papke, K. L. Stone, C. Stokes, A. D. Levy, J. Gelernter, P. Xie, J. Lindstrom, and M. R. Picciotto</i> | 410 |
| CHEMOTHERAPY, ANTIBIOTICS, AND GENE THERAPY | |
| ■ Improved Apoptotic Cell Death in Drug-Resistant Non-Small-Cell Lung Cancer Cells by Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand-Based Treatment <i>L. Gatti, G. Cossa, S. Tinelli, N. Carenini, N. Arrighetti, M. Pennati, D. Cominetti, M. De Cesare, F. Zunino, N. Zaffaroni, and P. Perego</i> | 360 |
| ■ DW09849, a Selective Phosphatidylinositol 3-Kinase (PI3K) Inhibitor, Prevents PI3K Signaling and Preferentially Inhibits Proliferation of Cells Containing the Oncogenic Mutation p110 α (H1047R) <i>Jia-li Liu, Guo-rui Gao, Xi Zhang, Su-fen Cao, Chen-liang Guo, Xiang Wang, Lin-jiang Tong, Jian Ding, Wen-hu Duan, and Ling-hua Meng</i> | 432 |
| DRUG DISCOVERY AND TRANSLATIONAL MEDICINE | |
| ■ No Activation of Human Pregnane X Receptor by Hyperforin-Related Phloroglucinols <i>Benjamin A. Kandel, Sean Ekins, Kristina Leuner, Wolfgang E. Thasler, Christian Harteneck, and Ulrich M. Zanger</i> | 393 |
| INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA | |
| ■ Anti-Inflammatory and Antinociceptive Action of an Orally Available Nociceptin Receptor Agonist SCH 221510 in a Mouse Model of Inflammatory Bowel Diseases <i>Marta Sobczak, Anna Mokrowiecka, Adam I. Cygankiewicz, Piotr K. Zakrzewski, Maciej Salaga, Martin Storr, Radziszaw Kordek, Ewa Malecka-Panas, Wanda M. Krajewska, and Jakub Fichna</i> | 401 |

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

| | |
|--|-----|
| Experimental Nonalcoholic Steatohepatitis Increases Exposure to Simvastatin Hydroxy Acid by Decreasing Hepatic Organic Anion Transporting Polypeptide Expression | 452 |
| John D. Clarke, Rhiannon N. Hardwick, April D. Lake, Mark J. Canet, and Nathan J. Cherrington | |
| Sphingolipid Signaling Reduces Basal P-Glycoprotein Activity in Renal Proximal Tubule | 459 |
| David S. Miller | |
| ■ Regulation of UDP-Glucuronosyltransferase 1A1 Expression and Activity by MicroRNA 491-3p | 465 |
| Douglas F. Dluzen, Dongxiao Sun, Anna C. Salzberg, Nate Jones, Ryan T. Bushey, Gavin P. Robertson, and Philip Lazarus | |

NEUROPHARMACOLOGY

| | |
|---|-----|
| AS1069562, the (+)-Isomer of Indeloxazine, Exerts Analgesic Effects in a Rat Model of Neuropathic Pain with Unique Characteristics in Spinal Monoamine Turnover | 372 |
| Nobuhito Murai, Toshiaki Aoki, Seiji Tamura, Toshihiro Sekizawa, Shuichiro Kakimoto, Mina Tsukamoto, Tomoya Oe, Ryugo Enomoto, Nozomu Hamakawa, and Nobuya Matsuoka | |

NOTICE OF RETRACTION

493

ERRATA

| | |
|--|-----|
| Correction to “Synergistic Interaction between the Two Mechanisms of Action of Tapentadol in Analgesia” | 489 |
| Correction to “Interactions between μ -Opioid Receptor Agonists and Cannabinoid Receptor Agonists in Rhesus Monkeys: Antinociception, Drug Discrimination, and Drug Self-Administration” | 490 |
| Correction to “G Protein-Coupled Bile Acid Receptor 1 Stimulation Mediates Arterial Vasodilation through a KCa1.1 (BKCa)-Dependent Mechanism” | 492 |

■ Supplemental material is available online at <http://jpet.aspetjournals.org>.

About the cover: The effects of DW compounds on the class I PI3K isoform-mediated signaling. See the article by Liu et al. (dx.doi.org/10.1124/jpet.113.210724).