

The Journal of PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

June 2017

Vol. 361, No. 3

Contents

MINIREVIEW

- Arresting the Development of Addiction: The Role of β -Arrestin 2 in Drug Abuse 341
Kirsten A. Porter-Stransky and David Weinshenker

BEHAVIORAL PHARMACOLOGY

- Propofol Anesthesia Is Reduced in Phospholipase C-Related Inactive Protein Type-1 Knockout Mice 367
Yoshikazu Nikaido, Tomonori Furukawa, Shuji Shimoyama, Junko Yamada, Keisuke Migita, Kohei Koga, Tetsuya Kushikata, Kazuyoshi Hirota, Takashi Kanematsu, Masato Hirata, and Shinya Ueno

CARDIOVASCULAR

- The Glycolytic Enzyme PFKFB3 Is Involved in Estrogen-Mediated Angiogenesis via GPER1 398
Annalisa Trenti, Serena Tedesco, Carlotta Boscaro, Nicola Ferri, Andrea Cignarella, Lucia Trevisi, and Chiara Bolego

CELLULAR AND MOLECULAR

- Exemestane and Its Active Metabolite 17-Hydroexemestane Induce UDP-Glucuronosyltransferase (UGT) 2B17 Expression in Breast Cancer Cells 482
Apichaya Chanawong, Peter I Mackenzie, Ross A McKinnon, Dong Gui Hu, and Robyn Meech

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- Pharmaceutical Characterization of Tropomyosin Receptor Kinase B-Agonistic Antibodies on Human Induced Pluripotent Stem (hiPS) Cell-Derived Neurons 355
Stefanie Traub, Heiko Stahl, Holger Rosenbrock, Eric Simon, Lore Florin, Lisa Hospach, Stefan Hörer, and Ralf Heilker

- Soluble Epoxide Hydrolase Pharmacological Inhibition Decreases Alveolar Bone Loss by Modulating Host Inflammatory Response, RANK-Related Signaling, Endoplasmic Reticulum Stress, and Apoptosis 408
Carlos Antonio Trindade-da-Silva, Ahmed Bettaieb, Marcelo Henrique Napimoga, Kin Sing Stephen Lee, Bora Inceoglu, Carlos Ueira-Vieira, Donald Bruun, Sumanta Kumar Goswami, Fawaz G. Haj, and Bruce D. Hammock

- A Genomic DNA Reporter Screen Identifies Squalene Synthase Inhibitors That Act Cooperatively with Statins to Upregulate the Low-Density Lipoprotein Receptor 417
Alastair G. Kerr, Lawrence C. S. Tam, Ashley B. Hale, Milena Cioroch, Gillian Douglas, Sarina Agkatsev, Olivia Hibbitt, Joseph Mason, James Holt-Martyn, Carole J. R. Bataille, Graham M. Wynne, Keith M. Channon, Angela J. Russell, and Richard Wade-Martins

- Pharmacologic Characterization of Valbenazine (NBI-98854) and Its Metabolites 454
Dimitri E. Grigoriadis, Evan Smith, Sam R. J. Hoare, Ajay Madan, and Haig Bozigian

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

- Effect of 4-[(5,6,7,8-Tetrahydro-5,5,8,8-Tetramethyl-2-Naphthalenyl)Carbamoyl]Benzoic Acid (Am80) on Alveolar Regeneration in Adiponectin Deficient-Mice Showing a Chronic Obstructive Pulmonary Disease-Like Pathophysiology 501
Hitomi Sakai, Michiko Horiguchi, Tomomi Akita, Chihiro Ozawa, Mai Hirokawa, Yuki Oiso, Harumi Kumagai, Yoshito Takeda, Isao Tachibana, Norikazu Maeda, and Chikamasa Yamashita

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

- Seletalisib: Characterization of a Novel, Potent, and Selective Inhibitor of PI3K δ 429
Rodger A. Allen, Daniel C. Brookings, Mark J. Powell, Jean Delgado, Lindsay K. Shuttleworth, Mark Merriman, Ian J. Fahy, Roohi Tewari, John P. Silva, Louise J. Healy, Gareth C. G. Davies, Breda Twomey, Rona M. Cutler, Apoorva Kotian, Andrea Crosby, Gillian McCluskey, Gillian F. Watt, and Andrew Payne

- ☐ Methoxyluteolin Inhibits Neuropeptide-stimulated Proinflammatory Mediator Release via mTOR Activation from Human Mast Cells 462
Arti B. Patel and Theoharis C. Theoharides

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

- ☐ Regulation of UDP-Glucuronosyltransferases UGT2B4 and UGT2B7 by MicroRNAs in Liver Cancer Cells 386
Dhilushi D. Wijayakumara, Peter I. Mackenzie, Ross A. McKinnon, Dong Gui Hu, and Robyn Meech

NEUROPHARMACOLOGY

- ☐ Detailed Characterization of the In Vitro Pharmacological and Pharmacokinetic Properties of *N*-(2-Hydroxybenzyl)-2,5-Dimethoxy-4-Cyanophenylethylamine (25CN-NBOH), a Highly Selective and Brain-Penetrant 5-HT_{2A} Receptor Agonist 441
Anders A. Jensen, John D. McCorvy, Sebastian Leth-Petersen, Christoffer Bundgaard, Gudrun Liebscher, Terry P. Kenakin, Hans Bräuner-Osborne, Jan Kehler, and Jesper Langgaard Kristensen

- Selective Calcium-Dependent Inhibition of ATP-Gated P2X₃ Receptors by Bisphosphonate-Induced Endogenous ATP Analog ApppI 472
Yevheniia Ishchenko, Anastasia Shakirzyanova, Raisa Giniatullina, Andrei Skorinkin, Genevieve Bart, Petri Turhanen, Jorma A. Määttä, Jukka Mönkkönen, and Rashid Giniatullin

- ☐ Brain Disposition of *cis*-*para*-Methyl-4-Methylaminorex (*cis*-4,4'-DMAR) and Its Potential Metabolites after Acute and Chronic Treatment in Rats: Correlation with Central Behavioral Effects 492
Jacopo Lucchetti, Claudio M. Marzo, Alice Passoni, Angelo Di Clemente, Federico Moro, Renzo Bagnati, Marco Gobbi, and Luigi Cervo

TOXICOLOGY

- Edema and Nociception Induced by *Philodryas patagoniensis* Venom in Mice: A Pharmacological Evaluation with Implications for the Accident Treatment 349
Priscila Hess Lopes, Marisa M.T. Rocha, Alexandre Kazuo Kuniyoshi, Fernanda Calheta Vieira Portaro, and Luís Roberto C. Gonçalves

- ☐ Dieldrin Augments mTOR Signaling and Regulates Genes Associated with Cardiovascular Disease in the Adult Zebrafish Heart (*Danio rerio*) 375
Logan Slade, Andrew Cowie, Chris J. Martyniuk, Petra C. Kienesberger, and Thomas Pulnilkunnil

ERRATUM

- Correction to: "The Cardenolide Glycoside Acovenoside A Affords Protective Activity in Doxorubicin-Induced Cardiotoxicity in Mice." 366

☐ Supplemental material is available at jpet.aspetjournals.org.

About the cover: Expression changes of genes related to lipid metabolism which were differentially expressed by the 1.8 µg/g dose of dieldrin in the adult zebrafish heart. See the article by Slade et al ([dx.doi.org/10.1124/jpet.116.239806](https://doi.org/10.1124/jpet.116.239806)).