The Journal of Pharmacology
And Experimental Therapeutics
A Publication of the American Society for Pharmacology and Experimental Therapeutics

April 2018 Vol. 365, No. 1

Contents

EDITORIAL
Publishing in an ASPET Journal – What’s in It for You? 94

BEHAVIORAL PHARMACOLOGY
Repeated Morphine Produces Sensitization to Reward and Tolerance to Antiallodynia in Male and Female Rats with Chemotherapy-Induced Neuropathy
L. P. Legakis and S. S. Negus 9

Application of Receptor Theory to the Design and Use of Fixed-Proportion Mu-Opioid Agonist and Antagonist Mixtures in Rhesus Monkeys
Jeremy C. Cornelissen, Samuel Obeng, Kenner C. Rice, Yan Zhang, S. Stevens Negus, and Matthew L. Banks 37

CARDIOVASCULAR
Toll-Like Receptor 9–Dependent AMPKα Activation Occurs via TAK1 and Contributes to RhoA/ROCK Signaling and Actin Polymerization in Vascular Smooth Muscle Cells
Cameron G. McCarthy, Camilla F. Wenceslau, Safia Ogbı, Theodora Szasz, and R. Clinton Webb 60

Flavopiridol Inhibits TGF-β-Stimulated Biglycan Synthesis by Blocking Linker Region Phosphorylation and Nuclear Translocation of Smad2
Muhamad A. Rostam, Aravin德拉 Shaţimoon, Danielle Kamato, Partha Mitra, Terrence J. Piva, Robel Getachew, Yingnan Cao, Wenhua Zheng, Narin Osman, and Peter J. Little 156

CELLULAR AND MOLECULAR
In Vitro and In Vivo Antitumor and Anti-Inflammatory Capabilities of the Novel GSK3 and CDK9 Inhibitor ABC1183
Randy S. Schrecengost, Cecelia L. Green, Yan Zhuang, Staci N. Keller, Ryan A. Smith, Lynn W. Maines, and Charles D. Smith 107

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE
In Silico Screening Identified Novel Small-molecule Antagonists of PAC1 Receptor
Ichiro Takasaki, Ai Watanabe, Masafumi Yokai, Yurie Watanabe, Daichi Hayakawa, Ryota Nagashima, Mamoru Fukuchi, Takuya Okada, Naoki Toyooka, Atsuro Miyata, Hiroaki Gouda, and Takashi Kurihara 1

CYP4X1 Inhibition by Flavonoid CH625 Normalizes Glioma Vasculature through Reprogramming TAMs via CB2 and EGFR-STAT3 Axis
Chenlong Wang, Ying Li, Honglei Chen, Keqing Huang, Xiaoxiao Liu, Miao Qiu, Yanzhuo Liu, Yuqing Yang, and Jing Yang 72

Development and Translational Application of a Minimal Physiologically Based Pharmacokinetic Model for a Monoclonal Antibody against Interleukin 23 (IL-23) in IL-23-Induced Psoriasis-Like Mice
Xi Chen, Xiling Jiang, Rajitha Doddareddy, Brian Geist, Thomas McIntosh, William J. Jusko, Honghui Zhou, and Weirong Wang 140

Targeting Glycine Reuptake in Alcohol Seeking and Relapse
Valentina Vengeliene, Martin Roßmanith, Tatjana T. Takahashi, Daniela Alberati, Berthold Behl, Anton Bexpalov, and Rainer Spanagel 202

ENDOCRINE AND DIABETES
High N-Acetyltransferase 1 Expression is Associated with Estrogen Receptor Expression in Breast Tumors, but is not Under Direct Regulation by Estradiol, 5α-androstane-3β, 17β-Diol, or Dihydrotestosterone in Breast Cancer Cells
Xiaoyan Zhang, Samantha M. Carlisle, Mark A. Doll, Robert C. G. Martin, J. Christopher States, Carolyn M. Klinge, and David W. Hein 84
GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

Role of the Pregnane X Receptor in Binge Ethanol-Induced Steatosis and Hepatotoxicity
Sora Choi, Afua A. Gyamfi, Prince Neequaye, Samuel Addo, Frank J. Gonzalez, and Maxwell A. Gyamfi

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

Nicotinamide Phosphoribosyltransferase Deficiency Potentiates the Antiproliferative Activity of Methotrexate through Enhanced Depletion of Intracellular ATP
Rakesh K. Singh, Leon van Haandel, Daniel P. Herruth, Shui Q. Ye, J. Steven Leeder, Mara L. Becker, and Ryan S. Funk

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

Regulation of UDP-Glucuronosyltransferase 2B15 by miR-331-5p in Prostate Cancer Cells Involves Canonical and Noncanonical Target Sites
Dhilushi D. Wijayakumara, Peter I. Mackenzie, Ross A. McKinnon, Dong Gui Hu, and Robyn Meech

NEUROPHARMACOLOGY

Dopamine Receptor Agonist Treatment of Idiopathic Dystonia: A Reappraisal in Humans and Mice
Xueliang Fan, Yuping Donsante, H. A. Jinnah, and Ellen J. Hess

Amlexanox Inhibits Cerebral Ischemia-Induced Delayed Astrocytic High-Mobility Group Box 1 Release and Subsequent Brain Damage
Sebok Kumar Halder and Hiroshi Ueda

PARP Inhibition Prevents Ethanol-Induced Neuroinflammatory Signaling and Neurodegeneration in Rat Adult-Age Brain Slice Cultures
Nuzhath Tajuddin, Hee-Yong Kim, and Michael A. Collins

Phosphodiesterase 2A Inhibitor TAK-915 Ameliorates Cognitive Impairments and Social Withdrawal in N-Methyl-D-Aspartate Receptor Antagonist–Induced Rat Models of Schizophrenia
Masato Nakashima, Haruka Imada, Eri Shiraishi, Yuki Ito, Noriko Suzuki, Maki Miyamoto, Takahiko Taniguchi, and Hiroki Iwashita

Curcumin Acts as a Positive Allosteric Modulator of α7-Nicotinic Acetylcholine Receptors and Reverses Nociception in Mouse Models of Inflammatory Pain
Eslam Gaber El Nebrisi, Deniz Bagdas, Wisam Toma, Halima Al Samri, Anna Brodzik, Yasmin Alkhlaif, Keun-Hang Susan Yang, Frank Christopher Howarth, Imad M. Damaj, and Murat Oz

TOXICOLOGY

A Model Mechanism-Based Explanation of an In Vitro-In Vivo Disconnect for Improving Extrapolation and Translation
Andrew K. Smith, Yanli Xu, Glen E. P. Ropella, and C. Anthony Hunt

ERRATA

Correction to “Nitric Oxide-Donating Nonsteroidal Anti-Inflammatory Drugs Inhibit the Growth of Various Cultured Human Cancer Cells: Evidence of a Tissue Type-Independent Effect”

Correction to “High N-Acetyltransferase 1 5α-androstane-3β, Expression is Associated with Estrogen Receptor Expression in Breast Tumors, but is not Under Direct Regulation by Estradiol, 17β-Diol, or Dihydroteosterone in Breast Cancer Cells”

Correction to “Curcumin Analog L48H37 Prevents Lipopolysaccharide-Induced TLR4 Signaling Pathway Activation and Sepsis via Targeting MD2”

Supplemental material is available at jpet.aspetjournals.org.

About the cover: Homology modeling of CYP4X1 and structure-based virtual screening. See the article by Wang et al. (dx.doi.org/10.1124/jpet.117.247130).