

The Journal of PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

January 2018

Vol. 364, No. 1

Contents

MINIREVIEWS

- MicroRNA-Directed Cancer Therapies: Implications in Melanoma Intervention 1
Anita Thyagarajan, Ahmed Shaban, and Ravi Prakash Sahu

CARDIOVASCULAR

- Discovery of Novel Small-Molecule Inducers of Heme Oxygenase-1 That Protect Human iPSC-Derived Cardiomyocytes from Oxidative Stress 87
R. Jason Kirby, Daniela B. Divlianska, Kanupriya Whig, Nadezda Bryan, Camilo J. Morfa, Ada Koo, Kevin H. Nguyen, Patrick Maloney, Satayamaheshwar Peddibhotla, E. Hampton Sessions, Paul M. Hershberger, Layton H. Smith, and Siobhan Malany

CHEMOTHERAPY, ANTIBIOTICS, AND GENE THERAPY

- Pharmacokinetic/Pharmacodynamic Modeling of Schedule-Dependent Interaction between Docetaxel and Cabozantinib in Human Prostate Cancer Xenograft Models 13
Wenjun Chen, Rong Chen, Jian Li, Yu Fu, Liang Yang, Hong Su, Ye Yao, Liang Li, Tianyan Zhou, and Wei Lu
- Nicotine Prevents and Reverses Paclitaxel-Induced Mechanical Allodynia in a Mouse Model of CIPN 110
S. Lauren Kyte, Wisam Toma, Deniz Bagdas, Julie A. Meade, Lesley D. Schurman, Aron H. Lichtman, Zhi-Jian Chen, Egidio Del Fabbro, Xianjun Fang, John W. Bigbee, M. Imad Damaj, and David A. Gewirtz

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- Discovery of a Positive Allosteric Modulator of the Thyrotropin Receptor: Potentiation of Thyrotropin-Mediated Preosteoblast Differentiation In Vitro 38
Susanne Neumann, Elena Eliseeva, Alisa Boutin, Elena Barnaeva, Marc Ferrer, Noel Southall, David Kim, Xin Hu, Sarah J. Morgan, Juan J. Marugan, and Marvin C. Gershengorn
- Synergistic Antiproliferative Activity of the RAD51 Inhibitor IBR2 with Inhibitors of Receptor Tyrosine Kinases and Microtubule Protein 46
Peter J. Ferguson, Mark D. Vincent, and James Koropatnick
- Melatonin Receptor Agonist Piromelatine Ameliorates Impaired Glucose Metabolism in Chronically Stressed Rats Fed a High-Fat Diet 55
Jun Zhou, Deng Wang, XiaoHong Luo, Xu Jia, MaoXing Li, Moshe Laudon, RuXue Zhang, and ZhengPing Jia
- The Anti-Vascular Endothelial Growth Factor Receptor-1 Monoclonal Antibody D16F7 Inhibits Glioma Growth and Angiogenesis In Vivo 77
Maria Grazia Atzori, Lucio Tentori, Federica Ruffini, Claudia Ceci, Elena Bonanno, Manuel Scimeca, Pedro Miguel Lacal, and Grazia Graziani
- INCB040093 Is a Novel PI3K δ Inhibitor for the Treatment of B Cell Lymphoid Malignancies 120
Niu Shin, Yun-Long Li, Song Mei, Kathy He Wang, Leslie Hall, Kamna Katiyar, Qian Wang, Gengjie Yang, Beth Rumberger, Lynn Leffet, Xin He, Mark Rugar, Kevin Bowman, Margaret Favata, Jun Li, Mike Liu, Yanlong Li, Maryanne Covington, Holly Koblisch, Maxim Soloviev, Dana Shuey, Timothy Burn, Sharon Diamond, Jordan Fridman, Andrew Combs, Wenqing Yao, Swamy Yeleswaram, Gregory Hollis, Kris Vaddi, Reid Huber, Robert Newton, and Peggy Scherle

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

- K γ 7 Channel Pharmacological Activation by the Novel Activator ML213: Role for Heteromeric K γ 7.4/K γ 7.5 Channels in Guinea Pig Detrusor Smooth Muscle Function 131
Aaron Provence, Damiano Angoli, and Georgi V. Petkov

NEUROPHARMACOLOGY

- ▣ An Approach to Discovering Novel Muscarinic M₁ Receptor Positive Allosteric Modulators with Potent Cognitive Improvement and Minimized Gastrointestinal Dysfunction 28
Emi Kurimoto, Satoru Matsuda, Yuji Shimizu, Yuu Sako, Takao Mandai, Takahiro Sugimoto, Hiroki Sakamoto, and Haruhide Kimura
- Single Channel Analysis of Isoflurane and Ethanol Enhancement of Taurine-Activated Glycine Receptors 70
Dean Kirson, Jelena Todorovic, and S. John Mihic
- Epigenetic Histone Deacetylation Inhibition Prevents the Development and Persistence of Temporal Lobe Epilepsy 97
Sandesh D. Reddy, Bryan L. Clossen, and Doodipala Samba Reddy
- ▣ Diazepam Concurrently Increases the Frequency and Decreases the Amplitude of Transient Dopamine Release Events in the Nucleus Accumbens 145
Scott A. Schelp, Zachary D. Brodник, Dylan R. Rakowski, Katherine J. Pultorak, Asha T. Sambells, Rodrigo A. España, and Erik B. Oleson

ERRATUM

- Correction to “TD-19, an Erlotinib Derivative, Induces Epidermal Growth Factor Receptor Wild-Type Nonsmall-Cell Lung Cancer Apoptosis through CIP2A-Mediated Pathway” 26

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

About the cover: Epigenetic pathway and HDAC sites of sodium butyrate's action. See the article by Reddy et al ([dx.doi.org/10.1124/jpet.117.244939](https://doi.org/10.1124/jpet.117.244939)).