

The Journal of PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

August 2018

Vol. 366, No. 2

Contents

MINIREVIEWS

- Molecular Basis of the Brain Renin Angiotensin System in Cardiovascular and Neurologic Disorders: Uncovering a Key Role for the Astroglial Angiotensin Type 1 Receptor AT1R 251
Dhanush Haspula and Michelle A. Clark
- The Influence of Nicotine on Lung Tumor Growth, Cancer Chemotherapy, and Chemotherapy-Induced Peripheral Neuropathy 303
S. Lauren Kyte and David A. Gewirtz

BEHAVIORAL PHARMACOLOGY

- Involvement of Nicotinic Receptor Subtypes in the Behavioral Effects of Nicotinic Drugs in Squirrel Monkeys 397
Sarah L. Withey, Michelle R. Doyle, Jack Bergman, and Rajeev I. Desai

CARDIOVASCULAR

- ☐ Activation of Large Conductance, Calcium-Activated Potassium Channels by Nitric Oxide Mediates Apelin-Induced Relaxation of Isolated Rat Coronary Arteries 265
Amreen Mughal, Chengwen Sun, and Stephen T. O'Rourke
- A Retinoic Acid β_2 -Receptor Agonist Exerts Cardioprotective Effects 314
Alice Marino, Takuya Sakamoto, Xiao-Han Tang, Lorraine J. Gudas, and Roberto Levi

CHEMOTHERAPY, ANTIBIOTICS, AND GENE THERAPY

- Enhancement of 5-Fluorouracil Cytotoxicity by Pyridoxal 5'-Phosphate and Folinic Acid in Tandem 238
David Machover, Emma Goldschmidt, Rosella Mollicone, Farhad Haghighi-Rad, Christophe Desterke, Yann Gaston-Mathé, Raphaël Saffroy, Claude Boucheix, and Julien Dairou
- Ibuprofen Decreases Spontaneous Activity and Enhances Nerve-Evoked Contractions to Minimize Mitomycin C-Induced Bladder Dysfunction 282
Eliza G. West, Ryan Lang, Donna Sellers, Russ Chess-Williams, and Catherine McDermott

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- ☐ Ocular Distribution and Pharmacodynamics of SF0166, a Topically Administered $\alpha_v\beta_3$ Integrin Antagonist, for the Treatment of Retinal Diseases 244
Ben C. Askew, Takeru Furuya, and D. Scott Edwards
- ☐ Protein Engineering on Human Recombinant Follistatin: Enhancing Pharmacokinetic Characteristics for Therapeutic Application 291
Chuan Shen, Andrea Iskenderian, Dianna Lundberg, Tao He, Kathleen Palmieri, Robert Crooker, Qingwei Deng, Matthew Traylor, Sheng Gu, Haojing Rong, David Ehmann, Brian Pescatore, Bettina Strack-Logue, Alla Romashko, George Baviello, John Gill, Bohong Zhang, Muthuraman Meiyappan, Clark Pan, and Angela W. Norton
- ☐ TAS-303, a Novel Selective Norepinephrine Reuptake Inhibitor that Increases Urethral Pressure in Rats, Indicating Its Potential as a Therapeutic Agent for Stress Urinary Incontinence 322
Hiroya Mizutani, Fukumitsu Sakakibara, Masahito Komuro, and Eiji Sasaki
- ☐ OBE022, an Oral and Selective Prostaglandin $F_{2\alpha}$ Receptor Antagonist as an Effective and Safe Modality for the Treatment of Preterm Labor 349
Oliver Pohl, André Chollet, Sung Hye Kim, Lucia Riaposova, François Spézia, Frédéric Gervais, Philippe Guillaume, Philippe Lluel, Murielle Méen, Frédérique Lemaux, Vasso Terzidou, Phillip R. Bennett, and Jean-Pierre Gotteband

- S Novel Polyphenols That Inhibit Colon Cancer Cell Growth Affecting Cancer Cell Metabolism 377
Marta Gómez de Cedrón, Teodoro Vargas, Andrés Madrona, Aranza Jiménez, María-Jesús Pérez-Pérez, José-Carlos Quintela, Guillermo Reglero, Ana San-Félix, and Ana Ramírez de Molina
- S Effect of ASP6432, a Novel Type 1 Lysophosphatidic Acid Receptor Antagonist, on Urethral Function and Prostate Cell Proliferation 390
Kazuyuki Sakamoto, Yukiko Noguchi, Koji Ueshima, Hisashi Yamakuni, Akiyoshi Ohtake, Shuichi Sato, Kenichiro Ishizu, Naomi Hosogai, Eiji Kawaminami, Masahiro Takeda, and Noriyuki Masuda

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

- Linaclotide Attenuates Visceral Organ Crosstalk: Role of Guanylate Cyclase-C Activation in Reversing Bladder-Colon Cross-Sensitization 274
Ehsan N. Mohammadi, Casey O. Ligon, Ada Silos-Santiago, Pei Ge, Caroline Kurtz, Carolyn Higgins, Gerhard Hannig, and Beverley Greenwood-Van Meerveld
- S Berberine Upregulates P-Glycoprotein in Human Caco-2 Cells and in an Experimental Model of Colitis in the Rat via Activation of Nrf2-Dependent Mechanisms 332
Wanghui Jing, Yasaman Safarpour, Ting Zhang, Pengqi Guo, Guoning Chen, Xiaoming Wu, Qiang Fu, and Yitao Wang

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

- S Naringenin Ameliorates Radiation-Induced Lung Injury by Lowering IL-1 β Level 341
Chao Zhang, Wenfeng Zeng, Yi Yao, Bin Xu, Xiuli Wei, Luoyang Wang, Xiaozhe Yin, Apurba Kumar Barman, Fayun Zhang, Chunling Zhang, Qibin Song, and Wei Liang

NEUROPHARMACOLOGY

- Characterization of the Neurochemical and Behavioral Effects of Solriamfetol (JZP-110), a Selective Dopamine and Norepinephrine Reuptake Inhibitor 367
Michelle G. Baladi, Michael J. Forster, Michael B. Gatch, Richard B. Mailman, Danielle L. Hyman, Lawrence P. Carter, and Aaron Janowsky

ERRATUM

- Correction to “Systems Pharmacological Analysis of Paclitaxel-Mediated Tumor Priming that Enhances Nanocarrier Deposition and Efficacy” 365

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

About the cover: Preliminary ontological characterization of indacaterol-induced gene expression changes. See the article by Yan et al., (dx.doi.org/10.1124/jpet.118.249292.)