

The Journal of PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

June 2021

Vol. 377, No. 3

Contents

BEHAVIORAL PHARMACOLOGY

- Novel Antimuscarinic Antidepressant-like Compounds with Reduced Effects on Cognition 336
Chad R. Johnson, Brian D. Kangas, Emily M. Jutkiewicz, Gail Winger, Jack Bergman, Andrew Coop, and James H. Woods

CARDIOVASCULAR

- Chronic Ca²⁺/Calmodulin-Dependent Protein Kinase II Inhibition Rescues Advanced Heart Failure 316
Yixi Liu, Qun Shao, Heng-Jie Cheng, Tiankai Li, Xiaowei Zhang, Michael F. Callahan, David Herrington, Dalane Kitzman, David Zhao, and Che-Ping Cheng
- Therapeutic Assessment of Combination Therapy with a Neprilysin Inhibitor and Angiotensin Type 1 Receptor Antagonist on Angiotensin II-Induced Atherosclerosis, Abdominal Aortic Aneurysms, and Hypertension 326
Yasir AlSiraj, Sean E. Thatcher, Ching Ling Liang, Heba Ali, Mark Ensor, and Lisa A. Cassis

CELLULAR AND MOLECULAR

- circ-Keratin 6c Promotes Malignant Progression and Immune Evasion of Colorectal Cancer through microRNA-485-3p/Programmed Cell Death Receptor Ligand 1 Axis 358
Zhipeng Jiang, Zehui Hou, Wei Liu, Zhuomin Yu, Zhiqiang Liang, and Shuang Chen
- Poly(ADP-Ribose) Polymerase Inhibitors for Arsenic Trioxide-Resistant Acute Promyelocytic Leukemia: Synergistic In Vitro Antitumor Effects with Hypomethylating Agents or High-Dose Vitamin C 385
Manuela Giansanti, Antonio De Gabrieli, Salvatore Pasquale Prete, Tiziana Ottone, Maria Domenica Divona, Terry Karimi, Fabio Ciccarone, Maria Teresa Voso, Grazia Graziani, and Isabella Faraoni

CHEMOTHERAPY, ANTIBIOTICS, AND GENE THERAPY

- Synergistic Pharmacodynamic Effects of Gemcitabine and Fibroblast Growth Factor Receptor Inhibitors on Pancreatic Cancer Cell Cycle Kinetics and Proliferation 370
Qingxiang Lin, Zhicheng Qian, William J. Jusko, Donald E. Mager, Wen Wee Ma, and Robert M. Straubinger

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- A Novel Integrated Pharmacokinetic-Pharmacodynamic Model to Evaluate Combination Therapy and Determine In Vivo Synergism 305
Young Hee Choi, Chao Zhang, Zhenzhen Liu, Mei-Juan Tu, Ai-Xi Yu, and Ai-Ming Yu
- AM833 Is a Novel Agonist of Calcitonin Family G Protein-Coupled Receptors: Pharmacological Comparison with Six Selective and Nonselective Agonists 417
Madeleine M. Fletcher, Peter Keov, Tin T. Truong, Grace Mennen, Caroline A. Hick, Peishen Zhao, Sebastian G.B. Furness, Thomas Kruse, Trine R. Clausen, Denise Wootten, and Patrick M. Sexton

ENDOCRINE AND DIABETES

- Ginsenoside Ro Ameliorates High-Fat Diet-Induced Obesity and Insulin Resistance in Mice via Activation of the G Protein-Coupled Bile Acid Receptor 5 Pathway 441
Lin-shan Jiang, Wei Li, Tong-xi Zhuang, Jie-jing Yu, Shuai Sun, Zheng-cai Ju, Zheng-tao Wang, Li-li Ding, and Li Yang

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

- ☐ Characterization of Novel Fluorescent Bile Salt Derivatives for Studying Human Bile Salt and Organic Anion Transporters 346
Michele Leuenberger, Stephanie Häusler, Vera Höhn, Adriana Euler, Bruno Stieger, and Martin Lochner

NEUROPHARMACOLOGY

- ☐ Brain Concentrations of Methylone and Its Metabolites after Systemic Methylone Administration: Relationship to Pharmacodynamic Effects 398
Nicole Centazzo, Michael R. Chojnacki, Joshua S. Elmore, Raider Rodriguez, Teeshavi Acosta, Masaki Suzuki, Kenner C. Rice, Michael H. Baumann, and Marta Concheiro
- ☐ Development of CVN424: A Selective and Novel GPR6 Inverse Agonist Effective in Models of Parkinson Disease 407
Nicola L. Brice, Hans H. Schiffer, Holger Monenschein, Victoria J. Mulligan, Keith Page, Justin Powell, Xiao Xu, Toni Cheung, J. Russell Burley, Huikai Sun, Louise Dickson, Sean T. Murphy, Nidhi Kaushal, Steve Sheardown, Jason Lawrence, Yun Chen, Darian Bartkowski, Anne Kanta, Joseph Russo, Natalie Hosea, Lee A. Dawson, Stephen H. Hitchcock, and Mark B. Carlton

LETTER TO THE EDITOR

- Comments on “Pharmacological Characterization of Apraglutide a Novel Long-Acting Peptidic Glucagon-Like Peptide-2 Agonist for the Treatment of Short Bowel Syndrome” 369
Jolanta Skarbaliene, Bjarne Due Larsen, Mark Berner-Hansen, and Adam Steensberg

ERRATUM

- Correction to “Pharmacological Characterization of Apraglutide, a Novel Long-Acting Peptidic Glucagon-Like Peptide-2 Agonist, for the Treatment of Short Bowel Syndrome” 368

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

About the cover: A new PK/PD model and strategy to evaluate combination therapy and define in vivo synergism. See the article by Choi et al. ([dx.doi.org/10.1124/jpet.121.000584](https://doi.org/10.1124/jpet.121.000584)).