

The Journal of
PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

May 2012

Vol. 341, No. 2

Contents

HIGHLIGHTED PAPERS

306

BEHAVIORAL PHARMACOLOGY

Effects of the GABA_B Receptor-Positive Modulators CGP7930 and rac-BHFF in Baclofen- and γ -Hydroxybutyrate-Discriminating Pigeons 369
Wouter Koek, Charles P. France, Kejun Cheng, and Kenner C. Rice

Effects of Serotonin 2C Receptor Agonists on the Behavioral and Neurochemical Effects of Cocaine in Squirrel Monkeys 424
Daniel F. Manvich, Heather L. Kimmel, and Leonard L. Howell

Role of Corticotropin-Releasing Factor and Corticosterone in Behavioral Sensitization to Ethanol 455
Raúl Pastor, Cheryl Reed, Paul J. Meyer, Carrie McKinnon, Andrey E. Ryabinin, and Tamara J. Phillips

Activation of Adenosine₁ Receptors Induces Antidepressant-Like, Anti-Impulsive Effects on Differential Reinforcement of Low-Rate 72-s Behavior in Rats 564
Gerard J. Marek

CARDIOVASCULAR

Ca²⁺ Channel Activators Reveal Differential L-Type Ca²⁺ Channel Pharmacology between Native and Stem Cell-Derived Cardiomyocytes 510
Jiesheng Kang, Xiao-Liang Chen, Junzhi Ji, Qiubo Lei, and David Rampe

CELLULAR AND MOLECULAR

Targeting Signal Transducer and Activator of Transcription 3 Pathway by Cucurbitacin I Diminishes Self-Renewing and Radiochemoresistant Abilities in Thyroid Cancer-Derived CD133⁺ Cells 410
Ling-Ming Tseng, Pin-I Huang, Yu-Rung Chen, Yu-Chih Chen, Yueh-Ching Chou, Yi-Wei Chen, Yuh-Lih Chang, Han-Shui Hsu, Yuan-Tzu Lan, Kuan-Hsuan Chen, Chin-Wen Chi, Shih-Hwa Chiou, De-Ming Yang, and Chen-Hsen Lee

Regulation of GABAergic Inputs to CA1 Pyramidal Neurons by Nicotinic Receptors and Kynurenic Acid 500
Jyotirmoy Banerjee, Manickavasagam Alkondon, Edna F. R. Pereira, and Edson X. Albuquerque

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

Binding Kinetics Redefine the Antagonist Pharmacology of the Corticotropin-Releasing Factor Type 1 Receptor 518
Beth A. Fleck, Sam R. J. Hoare, Rebecca R. Pick, Margaret J. Bradbury, and Dimitri E. Grigoriadis

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

Hypoxia-Inducible Factor Activation in Myeloid Cells Contributes to the Development of Liver Fibrosis in Cholestatic Mice 307
Bryan L. Copple, Sophia Kaska, and Callie Wentling

Complement Activation in Acetaminophen-Induced Liver Injury in Mice 377
Rohit Singhal, Patricia E. Ganey, and Robert A. Roth

Pharmacologic Targeting of Bacterial β -Glucuronidase Alleviates Nonsteroidal Anti-Inflammatory Drug-Induced Enteropathy in Mice 447
Amanda LoGuidice, Bret D. Wallace, Lauren Bendel, Matthew R. Redinbo, and Urs A. Boelsterli

Prevention of Bleomycin-Induced Lung Fibrosis in Mice by a Novel Approach of Parallel Inhibition of Cyclooxygenase and Nitric-Oxide Donation Using NCX 466, a Prototype Cyclooxygenase Inhibitor and Nitric-Oxide Donor 493
Alessandro Pini, Serena Viappiani, Manlio Bolla, Emanuela Masini, and Daniele Bani

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

- Prevention of Trinitrobenzene Sulfonic Acid-Induced Experimental Colitis by Oral Administration of a Poly(lactic-coglycolic Acid) Microsphere Containing Prostaglandin E₂ Receptor Subtype 4 Agonist 340
Tatsuya Okamoto, Shinji Uemoto, and Yasuhiko Tabata

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

- Brain Distribution of Cediranib Is Limited by Active Efflux at the Blood-Brain Barrier 386
Tianli Wang, Sagar Agarwal, and William F. Elmquist
- Pharmacokinetic Characterization of Amrubicin Cardiac Safety in an Ex Vivo Human Myocardial Strip Model. I. Amrubicin Accumulates to a Lower Level than Doxorubicin or Epirubicin 464
Emanuela Salvatorelli, Pierantonio Menna, Sekhar Surapaneni, Sharon L. Aukerman, Massimo Chello, Elvio Covino, Victoria Sung, and Giorgio Minotti
- Pharmacokinetic Characterization of Amrubicin Cardiac Safety in an Ex Vivo Human Myocardial Strip Model. II. Amrubicin Shows Metabolic Advantages over Doxorubicin and Epirubicin 474
Emanuela Salvatorelli, Pierantonio Menna, Odalys Gonzalez Paz, Sekhar Surapaneni, Sharon L. Aukerman, Massimo Chello, Elvio Covino, Victoria Sung, and Giorgio Minotti

NEUROPHARMACOLOGY

- Comparison of Δ FosB Immunoreactivity Induced by Vagal Nerve Stimulation with That Caused by Pharmacologically Diverse Antidepressants 317
Havan Furmaga, Mohona Sadhu, and Alan Frazer
- Transmembrane Potential Polarization, Calcium Influx, and Receptor Conformational State Modulate the Sensitivity of the Imidacloprid-Insensitive Neuronal Insect Nicotinic Acetylcholine Receptor to Neonicotinoid Insecticides 326
Béatrice Bodereau-Dubois, Olivier List, Delphine Calas-List, Olivier Marques, Pierre-Yves Communal, Steeve H. Thany, and Bruno Lapied
- VUF10166, a Novel Compound with Differing Activities at 5-HT_{3A} and 5-HT_{3AB} Receptors 350
A. J. Thompson, M. H. P. Verheij, I. J. P. de Esch, and S. C. R. Lummis
- Species Comparison and Pharmacological Characterization of Human, Monkey, Rat, and Mouse TRPA1 Channels 360
Bruce R. Bianchi, Xu-Feng Zhang, Regina M. Reilly, Philip R. Kym, Betty B. Yao, and Jun Chen
- Ⓢ Phosphodiesterase 9A Regulates Central cGMP and Modulates Responses to Cholinergic and Monoaminergic Perturbation In Vivo 396
Robin J. Kleiman, Douglas S. Chapin, Curt Christoffersen, Jody Freeman, Kari R. Fonseca, Kieran F. Geoghegan, Sarah Grimwood, Victor Guanowsky, Mihály Hajós, John F. Harms, Christopher J. Helal, William E. Hoffmann, Geralyn P. Kocan, Mark J. Majchrzak, Dina McGinnis, Stafford McLean, Frank S. Menniti, Fredrick Nelson, Robin Roof, Anne W. Schmidt, Patricia A. Seymour, Diane T. Stephenson, Francis David Tingley, Michelle Vanase-Frawley, Patrick R. Verhoest, and Christopher J. Schmidt
- Characterization of Seizures Induced by Acute and Repeated Exposure to Tetramethylenedisulfotetramine 435
Dorota Zolkowska, Christopher N. Banks, Ashish Dhir, Bora Inceoglu, James R. Sanborn, Mark R. McCoy, Donald A. Bruun, Bruce D. Hammock, Pamela J. Lein, and Michael A. Rogawski
- Ⓢ Methylphenidate Modifies Overflow and Presynaptic Compartmentalization of Dopamine via an α -Synuclein-Dependent Mechanism 484
Heramb Chadchankar, Jouni Ihalainen, Heikki Tanila, and Leonid Yavich
- σ -1 Receptor Agonist SKF10047 Inhibits Glutamate Release in Rat Cerebral Cortex Nerve Endings 532
Cheng-Wei Lu, Tzu-Yu Lin, Chia-Chuan Wang, and Su-Jane Wang
- Charge and Geometry of Residues in the Loop 2 β Hairpin Differentially Affect Agonist and Ethanol Sensitivity in Glycine Receptors 543
Daya I. Perkins, James R. Trudell, Liana Asatryan, Daryl L. Davies, and Ronald L. Alkana

Ⓢ Supplemental material is available online at <http://jpet.aspetjournals.org>.