

The Journal of
PHARMACOLOGY
And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

May 2015

Vol. 353, No. 2

Contents

HIGHLIGHTED PAPERS	234
MINIREVIEWS	
Activators of G Protein Signaling in the Kidney <i>Frank Park</i>	235
Endogenous Allosteric Modulators of G Protein–Coupled Receptors <i>Emma T. van der Westhuizen, Celine Valant, Patrick M. Sexton, and Arthur Christopoulos</i>	246
Innate Immune Modulation in Chronic Obstructive Pulmonary Disease: Moving Closer toward Vitamin D Therapy <i>Nele Heulens, Hannelie Korf, and Wim Janssens</i>	360
BEHAVIORAL PHARMACOLOGY	
Simultaneous Inhibition of Fatty Acid Amide Hydrolase and Monoacylglycerol Lipase Shares Discriminative Stimulus Effects with Δ^9 -Tetrahydrocannabinol in Mice <i>Lenka Hruba, Alexandre Seillier, Armia Zaki, Benjamin F. Cravatt, Aron H. Lichtman, Andrea Giuffrida, and Lance R. McMahon</i>	261
Evaluating an Etiologically Relevant Platform for Therapy Development for Temporal Lobe Epilepsy: Effects of Carbamazepine and Valproic Acid on Acute Seizures and Chronic Behavioral Comorbidities in the Theiler's Murine Encephalomyelitis Virus Mouse Model <i>Melissa L. Barker-Haliski, E. Jill Dahle, Taylor D. Heck, Timothy H. Pruess, Fabiola Vanegas, Karen S. Wilcox, and H. Steve White</i>	318
§ Selective Monoacylglycerol Lipase Inhibitors: Antinociceptive versus Cannabimimetic Effects in Mice <i>Bogna Ignatowska-Jankowska, Jenny L. Wilkerson, Mohammed Mustafa, Rehab Abdullah, Micah Niphakis, Jenny L. Wiley, Benjamin F. Cravatt, and Aron H. Lichtman</i>	424
CARDIOVASCULAR	
§ The Novel Prostaglandin I ₂ Mimetic ONO-1301 Escapes Desensitization in an Antiplatelet Effect Due to Its Inhibitory Action on Thromboxane A ₂ Synthesis in Mice <i>Hitoshi Kashiwagi, Koh-ichi Yuhki, Fumiaki Kojima, Shima Kumei, Osamu Takahata, Yoshiki Sakai, Shuh Narumiya, and Fumitaka Ushikubi</i>	269
DRUG DISCOVERY AND TRANSLATIONAL MEDICINE	
§ A Novel In Vivo Receptor Occupancy Methodology for the Glucocorticoid Receptor: Toward An Improved Understanding of Lung Pharmacokinetic/Pharmacodynamic Relationships <i>Elin Boger, Pär Ewing, Ulf G. Eriksson, Britt-Marie Fihm, Michael Chappell, Neil Evans, and Markus Fridén</i>	279
§ PF-1355, a Mechanism-Based Myeloperoxidase Inhibitor, Prevents Immune Complex Vasculitis and Anti–Glomerular Basement Membrane Glomerulonephritis <i>Wei Zheng, Roscoe Warner, Roger Ruggeri, Chunyan Su, Christian Cortes, Athanasia Skoura, Jessica Ward, Kay Ahn, Amit Kalgutkar, Dexue Sun, Tristan S. Maurer, Paul D. Bonin, Carlin Okerberg, Walter Bobrowski, Thomas Kawabe, Yanwei Zhang, Timothy Coskran, Sammy Bell, Bhupesh Kapoor, Kent Johnson, and Leonard Buckbinder</i>	288
Beneficial Effect of the Soluble Guanylyl Cyclase Stimulator BAY 41-2272 on Impaired Penile Erection in db/db ^{-/-} Type II Diabetic and Obese Mice <i>Kenia Pedrosa Nunes, Cleber E. Teixeira, Fernanda B. M. Priviero, Haroldo A. Toque, and R. Clinton Webb</i>	330

■ Pharmacological Characterization of AZD5069, a Slowly Reversible CXC Chemokine Receptor 2 Antagonist <i>David J. Nicholls, Katherine Wiley, Ian Dainty, Fraser MacIntosh, Caroline Phillips, Alasdair Gaw, and Carina Kärrman Mårdh</i>	340
■ A Small Molecule with Anticancer and Antimetastatic Activities Induces Rapid Mitochondrial-Associated Necrosis in Breast Cancer <i>Anja Bastian, Jessica E. Thorpe, Bryan C. Disch, Lora C. Bailey-Downs, Aleem Gangjee, Ravi K. V. Devambatla, Jim Henthorn, Kenneth M. Humphries, Shraddha S. Vadvalkar, and Michael A. Ihnat</i>	392
■ VX-509 (Decernotinib) Is a Potent and Selective Janus Kinase 3 Inhibitor That Attenuates Inflammation in Animal Models of Autoimmune Disease <i>Sudipta Mahajan, James K. Hogan, Dina Shlyakhter, Luke Oh, Francesco G. Salituro, Luc Farmer, and Thomas C. Hock</i>	405
The Ellagic Acid Derivative 4,4'-Di-O-Methylellagic Acid Efficiently Inhibits Colon Cancer Cell Growth through a Mechanism Involving WNT16 <i>Ana Ramírez de Molina, Teodoro Vargas, Susana Molina, Jenifer Sánchez, Jorge Martínez-Romero, Margarita González-Vallinas, Roberto Martín-Hernández, Ruth Sánchez-Martínez, Marta Gómez de Cedrón, Alberto Dávalos, Luca Calani, Daniele Del Rio, Antonio González-Sarrías, Juan Carlos Espín, Francisco A. Tomás-Barberán, and Guillermo Reglero</i>	433

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

■ In Vivo Visualization of the Antialbuminuric Effects of the Angiotensin-Converting Enzyme Inhibitor Enalapril <i>Ina Maria Schießl, Veronika Kattler, and Hayo Castrop</i>	299
Protective Role of Cannabinoid Receptor 2 Activation in Galactosamine/Lipopolysaccharide-Induced Acute Liver Failure through Regulation of Macrophage Polarization and MicroRNAs <i>Sunil Tomar, Elizabeth E. Zumbrun, Mitzi Nagarkatti, and Prakash S. Nagarkatti</i>	369

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

Pilocarpine-Induced Convulsive Activity Is Limited by Multidrug Transporters at the Rodent Blood-Brain Barrier <i>K. Römermann, J. P. Bankstahl, W. Löscher, and M. Bankstahl</i>	351
■ Evaluation of Rosuvastatin as an Organic Anion Transporting Polypeptide (OATP) Probe Substrate: In Vitro Transport and In Vivo Disposition in Cynomolgus Monkeys <i>Hong Shen, Hong Su, Tongtong Liu, Ming Yao, Gabe Mintier, Lun Li, R. Marcus Fancher, Ramaswamy Iyer, Punit Marathe, Yurong Lai, and A. David Rodrigues</i>	380
Species Differences in Hepatobiliary Disposition of Taurocholic Acid in Human and Rat Sandwich-Cultured Hepatocytes: Implications for Drug-Induced Liver Injury <i>Kyunghee Yang, Nathan D. Pfeifer, Kathleen Köck, and Kim L. R. Brouwer</i>	415

NEUROPHARMACOLOGY

■ Characterization of a <i>Pachymedusa dacnicolor</i> -Sauvagine Analog as a New High-Affinity Radioligand for Corticotropin-Releasing Factor Receptor Studies <i>Marilyn H. Perrin, Laura A. Tan, Joan M. Vaughan, Kathy A. Lewis, Cynthia J. Donaldson, Charleen Miller, Judit Erchegyi, Jean E. Rivier, and Paul E. Sawchenko</i>	307
---	-----

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

About the cover: Healthy glomerulus in a 9-week-old male Munich Wistar Frömter rat. See the article by Schießl et al. (dx.doi.org/10.1124/jpet.114.222125).