Contents

HIGHLIGHTED PAPERS

162

PERSPECTIVES IN PHARMACOLOGY

Endothelin-1–Induced Endoplasmic Reticulum Stress in Disease
Arjun Jain

163

BEHAVIORAL PHARMACOLOGY

Response of Neurotensin Basal Ganglia Systems during Extinction of Methamphetamine Self-Administration in Rat
Glen R. Hanson, Amanda J. Hoonakker, Christina M. Robson, Lisa M. McFadden, Paul S. Frankel, and Mario E. Alburges

173

CARDIOVASCULAR

Myocardial, Smooth Muscle, Nephron, and Collecting Duct Gene Targeting Reveals the Organ Sites of Endothelin A Receptor Antagonist Fluid Retention
Deborah Stuart, Mark Chapman, Sara Rees, Stephanie Woodward, and Donald E. Kohan

182

In Vivo Cardiovascular Pharmacology of 2',3'-cAMP, 2'-AMP, and 3'-AMP in the Rat
Edwin K. Jackson and Zaichuan Mi

190

CELLULAR AND MOLECULAR

Survivin Inhibitor YM-155 Sensitizes Tumor Necrosis Factor–Related Apoptosis-Inducing Ligand-Resistant Glioma Cells to Apoptosis through Mcl-1 Downregulation and by Engaging the Mitochondrial Death Pathway
Daniel R. Premkumar, Esther P. Jane, Kimberly A. Foster, and Ian F. Pollack

201

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

The Grasshopper: A Novel Model for Assessing Vertebrate Brain Uptake
Olga Andersson, Steen Honoré Hansen, Karin Hellman, Line Rørback Olsen, Gunnar Andersson, Lassina Badolo, Niels Svenstrup, and Peter Aadal Nielsen

211

Inhibition of Btk with CC-292 Provides Early Pharmacodynamic Assessment of Activity in Mice and Humans

219

Pharmacology of AMG 416 (Velcalcetide), a Novel Peptide Agonist of the Calcium-Sensing Receptor, for the Treatment of Secondary Hyperparathyroidism in Hemodialysis Patients
Sarah Walter, Amos Baruch, Jin Dong, James E. Tomlinson, Shawn T. Alexander, Julie Janes, Tom Hunter, Qun Yin, Derek Maclean, Gregory Bell, Derek B. Mendel, Randolph M. Johnson, and Felix Karim

229

In Vivo Pharmacological Characterization of TD-4208, a Novel Lung-Selective Inhaled Muscarinic Antagonist with Sustained Bronchoprotective Effect in Experimental Animal Models
M. T. Pulido-Rios, A. McNamara, G. P. Obedencio, Y. Ji, S. Jaw-Tsai, W. J. Martin, and S. S. Hegde

241

Monitoring Tumor Response to Linifanib Therapy with SPECT/CT Using the Integrin αvβ3–Targeted Radiotracer $^{99m}$Tc-3P-RGD$_2$
Shundong Ji, Yang Zhou, Martin J. Voorbach, Guoqiang Shao, Yumin Zhang, Gerard B. Fox, Daniel H. Albert, Yanping Luo, Shuang Liu, and Sarah R. Mudd

251
Protective Properties of 2-Acetylcyclopentanone in a Mouse Model of Acetaminophen Hepatotoxicity
Lihai Zhang, Terrence Gavin, Brian C. Geohagen, Qiang Liu, Katherine J. Downey, and Richard M. LoPachin

ENDOCRINE AND DIABETES
Development of a Novel Long-Acting Antidiabetic FGF21 Mimetic by Targeted Conjugation to a Scaffold Antibody
Jie Huang, Tetsuya Ishino, Gang Chen, Paul Rolzin, Trina F. Osothprarop, Kelsey Retting, Lingna Li, Ping Jin, Marla J. Matin, Bernard Huyghe, Saswata Talukdar, Curt W. Bradshaw, Moorthy Palanki, Bernard N. Violand, Gary Woodnutt, Rodney W. Lappe, Kathleen Ogilvie, and Nancy Levin

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL
PA21, a New Iron-Based Noncalcium Phosphate Binder, Prevents Vascular Calcification in Chronic Renal Failure Rats
Olivier Phan, Marc Maillard, Christine Peregaux, David Mordasini, Jean-Christophe Stehle, Felix Funk, and Michel Burnier

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA
Endothelin Receptor Antagonists Attenuate the Inflammatory Response of Human Pulmonary Vascular Smooth Muscle Cells to Bacterial Endotoxin
Jürgen Knobloch, Maria Feldmann, Chiara Wahl, David Jungck, Jürgen Behr, Erich Stoelben, and Andrea Koch

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS
Substrate-Dependent Ligand Inhibition of the Human Organic Cation Transporter OCT2
Mathew Belzer, Mark Morales, Bhumasamudram Jagadish, Eugene A. Mash, and Stephen H. Wright

NEUROPHARMACOLOGY
Monoamine Transporter Occupancy of a Novel Triple Reuptake Inhibitor in Baboons and Humans Using Positron Emission Tomography
Robert A. Comley, Cristian A. Salinas, Mark Slifstein, Marcella Petrone, Carmine Marzano, Idriss Bennacef, Paul Shotbolt, Jasper Van der Aart, Marta Neve, Laura Iavarone, Roberto Gomeni, Marc Laruelle, Frank A. Gray, Roger N. Gunn, and Eugenii A. Rabiner

Selective and Potent Agonists and Antagonists for Investigating the Role of Mouse Oxytocin Receptors
Marta Busnelli, Elisabetta Bulgheroni, Maurice Manning, Gunnar Kleinau, and Bice Chini

HAMI 3379, a CysLT2 Receptor Antagonist, Attenuates Ischemia-Like Neuronal Injury by Inhibiting Microglial Activation
Xia-Yan Zhang, Xiao-Rong Wang, Dong-Min Xu, Shu-Ying Yu, Qiao-Juan Shi, Li-Hui Zhang, Lu Chen, San-Hua Fang, Yun-Bi Lu, Wei-Ping Zhang, and Er-Qing Wei

[] Supplemental material is available online at http://jpet.aspetjournals.org.

About the cover: Structural homology model of the monomeric mouse OTR. See the article by Busnelli et al. on page 318 of this issue.