## Contents

### HIGHLIGHTED PAPERS

#### BEHAVIORAL PHARMACOLOGY

- JWH-018 and JWH-073: Δ⁹-Tetrahydrocannabinol-Like Discriminative Stimulus Effects in Monkeys
  **Brett C. Ginsburg, David R. Schulze, Lenka Hruba, and Lance R. McMahon**

- Synergistic Self-Administration of Ethanol and Cocaine Directly into the Posterior Ventral Tegmental Area: Involvement of Serotonin-3 Receptors
  **Zheng-Ming Ding, Scott M. Oster, Sheketha R. Hauser, Jamie E. Toalston, Richard L. Bell, William J. McBride, and Zachary A. Rodd**

#### CARDIOVASCULAR

- Differential Modulation of Brainstem Phosphatidylinositol 3-Kinase/Akt and Extracellular Signal-Regulated Kinase 1/2 Signaling Underlies WIN55,212-2 Centrally Mediated Pressor Response in Conscious Rats
  **Badr Mostafa Ibrahim and Abdel A. Abdel-Rahman**

- Atrial-Selective Sodium Channel Block Strategy to Suppress Atrial Fibrillation: Ranolazine versus Propafenone
  **Alexander Burashnikov, Luiz Belardinelli, and Charles Antzelevitch**

- Histamine 3 Receptor Activation Reduces the Expression of Neuronal Angiotensin II Type 1 Receptors in the Heart
  **Narumi Hashikawa-Hobara, Noel Yan-Ki Chan, and Roberto Levi**

#### CELLULAR AND MOLECULAR

- Adenylate Cyclase/cAMP/Protein Kinase A Signaling Pathway Inhibits Endothelin Type A Receptor-Operated Ca²⁺ Entry Mediated via Transient Receptor Potential Canonical 6 Channels
  **Takahiro Horinouchi, Tsunaki Higa, Hiroyuki Aoyagi, Tadashi Nishiya, Koji Terada, and Soichi Miwa**

#### DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- The Fate of Bacterial Cocaine Esterase (CocE): An In Vivo Study of CocE-Mediated Cocaine Hydrolysis, CocE Pharmacokinetics, and CocE Elimination

- Small Molecule Positive Allosteric Modulation of TRPV1 Activation by Vanilloids and Acidic pH
  **Krisztian Kaszas, Jason M. Keller, Claudio Coddou, Santosh K. Mishra, Mark A. Hoon, Stanko Stojilkovic, Kenneth A. Jacobson, and Michael J. Iadarola**

- Protection from Myocardial Ischemia/Reperfusion Injury by a Positive Allosteric Modulator of the A₃ Adenosine Receptor
  **Lili Du, Zhan-Guo Gao, Kasem Nithipatikom, Adriaan P. IJzerman, Jacobus P. D. van Veldhoven, Kenneth A. Jacobson, Garrett J. Gross, and John A. Auchampach**

#### ENDOCRINE AND DIABETES

- Beneficial Effects of PKF275-055, a Novel, Selective, Orally Bioavailable, Long-Acting Dipeptidyl Peptidase IV Inhibitor in Streptozotocin-Induced Diabetic Peripheral Neuropathy

#### GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

- Heme Oxygenase-1 Alleviates Mouse Hepatic Failure through Suppression of Adaptive Immune Responses
  **Qiaoli Gu, Qiong Wu, Min Jin, Yichuan Xiao, Jingwei Xu, Chaoming Mao, Fang Zhao, Yi Zhang, and Yanyun Zhang**
Hemokinin-1 Stimulates Prostaglandin E₂ Production in Human Colon through Activation of Cyclooxygenase-2 and Inhibition of 15-Hydroxyprostaglandin Dehydrogenase

Liying Dai, D. Shevy Perera, Denis W. King, Bridget R. Southwell, Elizabeth Burcher, and Lu Liu

Pharmacological Activation of Small Conductance Calcium-Activated Potassium Channels with Naphtho[1,2-d]thiazol-2-ylamine Decreases Guinea Pig Detrusor Smooth Muscle Excitability and Contractility

Shankar P. Parajuli, Rupal P. Soder, Kiril L. Hristov, and Georgi V. Petkov

Impaired Wound Healing in Hypoxic Renal Tubular Cells: Roles of Hypoxia-Inducible Factor-1 and Glycogen Synthase Kinase 3β/β-Catenin Signaling

Jianping Peng, Ganesan Ramesh, Lin Sun, and Zheng Dong

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

Arthritic Joint-Targeting Small Interfering RNA-Encapsulated Liposome: Implication for Treatment Strategy for Rheumatoid Arthritis

Yukiko Komano, Nobuhiro Yagi, Ikumi Onoue, Kayoko Kaneko, Nobuyuki Miyasaka, and Toshihiro Nanki

METABOLISM, TRANSPORT, AND PHARMACOCOGNOMICS

Analysis of R- and S-Hydroxywarfarin Glucuronidation Catalyzed by Human Liver Microsomes and Recombinant UDP-Glucuronosyltransferases

Stacie M. Bratton, Carrie M. Mosher, Farid Khallouki, Moshe Finel, Michael H. Court, Jeffery H. Moran, and Anna Radomska-Pandya

Expression of ATP-Binding Cassette Membrane Transporters in Rodent and Human Sertoli Cells: Relevance to the Permeability of Antiretroviral Therapy at the Blood-Testis Barrier

Kevin R. Robillard, Md. Tozammel Hoque, and Reina Bendayan

NEUROPHARMACOLOGY

GABA<sub>B</sub> Receptor-Positive Modulators: Brain Region-Dependent Effects

Julie G. Hensler, Tushar Advani, Teresa F. Burke, Kejun Cheng, Kenner C. Rice, and Wouter Koek

Pleiotropic Opioid Regulation of Spinal Endomorphin 2 Release and Its Adaptations to Opioid Withdrawal Are Sexually Dimorphic

Sumita Chakrabarti, Nai-Jiang Liu, James E. Zadina, Tarak Sharma, and Alan R. Gintzler

Effects of Repeated 3,4-Methylenedioxymethamphetamine Administration on Neurotransmitter Efflux and Sensory-Evoked Discharge in the Ventral Posterior Medial Thalamus

M. A. Starr, M. E. Page, and B. D. Waterhouse

CEP-26401 (Irdabissant), a Potent and Selective Histamine H<sub>3</sub> Receptor Antagonist/Inverse Agonist with Cognition-Enhancing and Wake-Promoting Activities


Ethanol Inhibition of Constitutively Open N-Methyl-D-Aspartate Receptors

Minfu Xu, C. Thetford Smothers, James Trudell, and John J. Woodward

TOXICOLOGY

Acetaminophen-Induced Hepatotoxicity and Protein Nitration in Neuronal Nitric-Oxide Synthase Knockout Mice

Rakhee Agarwal, Leah Hennings, Tonya M. Rafferty, Lynda G. Leitzig, Sandra McCullough, Laura P. James, Lee Ann MacMillan-Crow, and Jack A. Hinson

Angiotensin II Type 1 Receptor Antagonist Attenuates Lung Fibrosis in Hyperoxia-Exposed Newborn Rats

Hsiu-Chu Chou, Yaw-Dong Lang, Leng-Fang Wang, Tzu-Ying Wu, Yu-Fang Hsieh, and Chung-Ming Chen

Role of Mitochondrial Oxidants in an In Vitro Model of Sepsis-Induced Renal Injury

Elina Pathak, Lee Ann MacMillan-Crow, and Philip R. Mayeux


About the cover: Accumulation of systemically administered siRNA/WS in arthritic sites. See the article by Komano et al. on page 109 of this issue.