HIGHLIGHTED PAPERS

PERPECTIVES IN PHARMACOLOGY
Mechanisms of Cadmium-Induced Proximal Tubule Injury: New Insights with Implications for Biomonitoring and Therapeutic Interventions
Walter C. Prozialeck and Joshua R. Edwards

BEHAVIORAL PHARMACOLOGY
Roles of μ-Opioid Receptors and Nociceptin/Orphanin FQ Peptide Receptors in Buprenorphine-Induced Physiological Responses in Primates
Colette M. Cremeans, Erin Gruley, Donald J. Kyle, and Mei-Chuan Ko
Antagonism of Metabotropic Glutamate 1 Receptors Attenuates Behavioral Effects of Cocaine and Methamphetamine in Squirrel Monkeys
Cindy Achat-Mendes, Donna M. Platt, and Roger D. Spealman

CARdiovascular
Carvedilol Enhances Mesenchymal Stem Cell Therapy for Myocardial Infarction via Inhibition of Caspase-3 Expression
Fatemat Hassan, Saraha Meduru, Kazuaki Taguchi, M. Lakshmi Kuppusamy, Mahmoud Mostafa, Pertamnan Kuppusamy, and Mahmood Khan
Aldehyde Dehydrogenase Type 2 Activation by Adenosine and Histamine Inhibits Ischemic Norepinephrine Release in Cardiac Sympathetic Neurons: Mediation by Protein Kinase Cε
Pablo A. Robador, Nahid Seyedi, Noel Yan-Ki Chan, Kenichiro Koda, and Roberto Levi
Acute Myocardial Infarction Inhibits the Neurogenic Tachycardic and Vasopressor Response in Rats via Presynaptic Cannabinoid Type 1 Receptor
Radosław Rudz, Eberhard Schlicker, Urszula Baranowska, Justyna Marciniak, Piotr Karabowicz, and Barbara Malinowska
Rosiglitazone Improves Insulin Sensitivity and Baroreflex Gain in Rats with Diet-Induced Obesity
Ding Zhao, Belinda H. McCully, and Virginia L. Brooks

CELLULAR AND MOLECULAR
Structural Changes of Regulatory Domain Heterodimer of N-Methyl-D-aspartate Receptor Subunits GluN1 and GluN2B through the Binding of Spermine and Ifenprodil
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Cannabinoid Receptor Activation Correlates with the Proapoptotic Action of the β2-Adrenergic Agonist (R,R')-4-Methoxy-1-Naphthylfenoterol in HepG2 Hepatocarcinoma Cells
Rajib K. Paul, Anuradha Ramamoorthy, Jade Scheers, Robert P. Wersto, Lawrence Toll, Lucita Jimenez, Michel Bernier, and Irving W. Wainer
Δ-9,11 Modification of Glucocorticoids Dissociates Nuclear Factor-κB Inhibitory Efficacy from Glucocorticoid Response Element-Associated Side Effects
Andreas R. Baudy, Erica K. M. Reeves, Jesse M. Damsker, Christopher Heier, Lindsay M. Garvin, Blythe C. Dillingham, John McCall, Sree Rayavarapu, Zayi Wang, Jack H. Vandermeulen, Arpana Sali, Vanessa Jahnke, Stephanie Duguez, Debra Dubs, Mary C. Rose, Kameboyina Nagaraju, and Eric P. Hoffman
The Anti-Inflammatory Fungal Compound (S)-Curvularin Reduces Proinflammatory Gene Expression in an In Vivo Model of Rheumatoid Arthritis
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A Potent and Selective Metabotropic Glutamate Receptor 4 Positive Allosteric Modulator Improves Movement in Rodent Models of Parkinson’s Disease
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Sepantronium Bromide (YM155) Enhances Response of Human B-Cell Non-Hodgkin Lymphoma to Rituximab
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Chronic Treatment with a Broad-Spectrum Metalloproteinase Inhibitor, Doxycycline, Prevents the Development of Spontaneous Aortic Lesions in a Mouse Model of Vascular Ehlers-Danlos Syndrome
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Diabetes-Induced Renal Injury in Rats Is Attenuated by Suramin
Midhun C. Korrapati, Brooke E. Shaner, Benjamin A. Neely, Joseph L. Alge, John M. Arthur, and Rick G. Schnellmann

Activation of Neurokinin-1 Receptors Increases the Excitability of Guinea Pig Dorsal Root Ganglion Cells
Xiulin Zhang, Claudio Pietra, Emanuela Lovati, and William C. de Groat

Involvement of Serine Protease and Proteinase-Activated Receptor 2 in Dermatophyte-Associated Itch in Mice
Tsugunobu Andoh, Yusuke Takayama, Takako Yamakoshi, Jung-Bum Lee, Ayako Sano, Tadamichi Shimizu, and Yasushi Kuraishi

Inhibiting Glycogen Synthase Kinase-3 Decreases 12-O-Tetradecanoylphorbol-13-Acetate-Induced Interferon-γ-Mediated Skin Inflammation
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Laura Pujols, Laura Fernández-Bertolín, Mireya Fuentes-Prado, Isam Alobid, Jordi Roca-Ferrer, Neus Agell, Joaquim Mullol, and César Picado

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Sarah M. Brown, Scott D. Campbell, Amanda Crafford, Karen J. Regina, Michael J. Holtzman, and Evan D. Kharasch

In Vitro Evaluation of Major In Vivo Drug Metabolic Pathways Using Primary Human Hepatocytes and HepaRG Cells in Suspension and a Dynamic Three-Dimensional Bioreactor System
Malin Darnell, Maria Ulvestad, Ewa Ellis, Lars Weidolf, and Tommy B. Andersson

Evaluation of Organic Anion-Transporting Polypeptide 1B1 and CYP3A4 Activities in Primary Human Hepatocytes and HepaRG Cells Cultured in a Dynamic Three-Dimensional Bioreactor System
Maria Ulvestad, Malin Darnell, Espen Molden, Ewa Ellis, Anders Åsberg, and Tommy B. Andersson

Antagonism of Supraspinal Histamine H3 Receptors Modulates Spinal Neuronal Activity in Neuropathic Rats
Steve McGaraughty, Katharine L. Chu, Marlon D. Cowart, and Jorge D. Brioni
Effect of Fasudil, a Selective Inhibitor of Rho Kinase Activity, in the Secondary Injury Associated with the Experimental Model of Spinal Cord Trauma

Daniela Impellizzeri, Emanuela Mazzon, Irene Paterniti, Emanuela Esposito, and Salvatore Cuzzocrea

Pharmacological Properties and Procognitive Effects of ABT-288, a Potent and Selective Histamine H₃ Receptor Antagonist


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About the cover: Modeling of spermine and ifenprodil binding to GluN1R and GluN2BR monomers. See the article by Tomitori et al. on page 82 of this issue.