

PHARMACOLOGICAL REVIEWS

A Publication of the American Society for Pharmacology and Experimental Therapeutics

July 2012

Volume 64, Number 3

IUPHAR Nomenclature Report

- International Union of Basic and Clinical Pharmacology. LXXXVI. Orexin Receptor Function, Nomenclature and Pharmacology 389
Anthony L. Gotter, Andrea L. Webber, Paul J. Coleman, John J. Renger, and Christopher J. Winrow

Review Articles

- Organic Anion Transporters and Their Implications in Pharmacotherapy 421
Arian Emami Riedmaier, Anne T. Nies, Elke Schaeffeler, and Matthias Schwab
- Pharmacology and Therapeutics of Bronchodilators 450
Mario Cazzola, Clive P. Page, Luigino Calzetta, and M. Gabriella Matera
- Physical and Chemical Strategies for Therapeutic Delivery by Using Polymeric Nanoparticles 505
José M. Morachis, Enas A. Mahmoud, and Adah Almutairi
- Aldehyde Dehydrogenase Inhibitors: a Comprehensive Review of the Pharmacology, Mechanism of Action, Substrate Specificity, and Clinical Application 520
Vindhya Koppaka, David C. Thompson, Ying Chen, Manuel Ellermann, Kyriacos C. Nicolaou, Risto O. Juvonen, Dennis Petersen, Richard A. Deitrich, Thomas D. Hurley, and Vasilis Vasiliou
- Molecular Mechanisms Regulating the Vascular Prostacyclin Pathways and Their Adaptation during Pregnancy and in the Newborn 540
Batoule H. Majed and Raouf A. Khalil
- The Pharmacological Treatment of Pulmonary Arterial Hypertension 583
Lyn R. Frumkin
- Pharmacology for the Treatment of Premature Ejaculation 621
François Giuliano and Pierre Clément
- G-Protein-Coupled Receptors in Adult Neurogenesis 645
Van A. Doze and Dianne M. Perez
- Classification, Functions, and Clinical Relevance of Extracellular Vesicles 676
Edwin van der Pol, Anita N. Böing, Paul Harrison, Auguste Sturk, and Rienk Nieuwland
- Cisplatin Resistance: A Cellular Self-Defense Mechanism Resulting from Multiple Epigenetic and Genetic Changes 706
Ding-Wu Shen, Lynn M. Pouliot, Matthew D. Hall, and Michael M. Gottesman
- Human Experimental Pain Models for Assessing the Therapeutic Efficacy of Analgesic Drugs 722
Anne Estrup Olesen, Trine Andresen, Camilla Staahl, and Asbjørn Mohr Drewes
- Thinking Outside the Cleft to Understand Synaptic Activity: Contribution of the Cystine-Glutamate Antiporter (System x_c^-) to Normal and Pathological Glutamatergic Signaling 780
Richard Bridges, Victoria Lutgen, Doug Lobner, and David A. Baker
- The Dual Role of Pharmacogenetics in HIV Treatment: Mutations and Polymorphisms Regulating Antiretroviral Drug Resistance and Disposition 803
Veronique Michaud, Tamara Bar-Magen, Jacques Turgeon, David Flockhart, Zeruesenay Desta, and Mark A. Wainberg

About the cover: Types of therapeutic payloads that can be encapsulated into polymeric nanoparticles. See the article by Morachis et al. on page 505 of this issue.