MINIREVIEWS

Control of Assembly and Function of Glutamate Receptors by the Amino-Terminal Domain
Kasper B. Hansen, Hiro Furukawa, and Stephen F. Traynelis

Thinking Outside of the “RGS Box”: New Approaches to Therapeutic Targeting of Regulators of G Protein Signaling
Benita Sjögren and Richard R. Neubig

PERSPECTIVE

Mind Your Salts: When the Inactive Constituent Isn’t
Richard R. Neubig

ACCELERATED COMMUNICATION

Targeting of the Orphan Receptor GPR35 by Pamoic Acid: A Potent Activator of Extracellular Signal-Regulated Kinase and β-Arrestin2 with Antinociceptive Activity

ARTICLES

Strontium Ranelate Decreases Receptor Activator of Nuclear Factor-κB Ligand-Induced Osteoclastic Differentiation In Vitro: Involvement of the Calcium-Sensing Receptor
Axelle Caudrillier, Anne-Sophie Hurtel-Lemaire, Alice Wattel, Fabienne Cournarie, Corinne Godin, Laurent Petit, Jean-Pierre Petit, Ernest Terwilliger, Said Kamel, Edward Meigs Brown, Romuald Mentaverri, and Michel Brazier

Targeting the Proton-Coupled Folate Transporter for Selective Delivery of 6-Substituted Pyrrolo [2,3-d]Pyrimidine Antifolate Inhibitors of De Novo Purine Biosynthesis in the Chemotherapy of Solid Tumors
Sita Kugel Desmoulin, Yiqiang Wang, Jianmei Wu, Mark Stout, Zhanjun Hou, Andreas Fulterer, Min-Hwang Chang, Michael F. Romero, Christina Cherian, Aleem Gangjee, and Larry H. Matherly
Potassium Channel Block by a Tripartite Complex of Two Cationophilic Ligands and a Potassium Ion
Pavel I. Zimin, Bojan Garic, Silke B. Bodendiek, Cédrick Mahieux, Heike Wulff, and Boris S. Zhorov

Phenylalanine-544 Plays a Key Role in Substrate and Inhibitor Binding by Providing a Hydrophobic Packing Point at the Active Site of Insulin-Regulated Aminopeptidase
Anthony L. Alibston, Vi Pham, Siying Ye, Leelee Ng, Rebecca A. Lew, Philip E. Thompson, Jessica K. Holien, Craig J. Morton, Michael W. Parker, and Siew Yeen Chai

Role of Epigenetic Mechanisms in Differential Regulation of the Dioxin-Inducible Human CYP1A1 and CYP1B1 Genes
Sudheer R. Beedanagari, Robert T. Taylor, Peter Bui, Feng Wang, Derek W. Nickerson, and Oliver Hankinson

Functional Characterization of the Semisynthetic Bile Acid Derivative INT-767, a Dual Farnesoid X Receptor and TGR5 Agonist
Giovanni Rizzo, Daniela Passeri, Francesca De Franco, Gianmario Ciaccioli, Loredana Donadio, Giorgia Rizzo, Stefano Orlandi, Bahman Sadeghpour, Xiaoxin X. Wang, Tao Jiang, Moshe Levi, Mark Pruzanski, and Luciano Adorini

Molecular Model of Anticonvulsant Drug Binding to the Voltage-Gated Sodium Channel Inner Pore
Gregory M. Lipkind and Harry A. Fozzard

Ligand-Supported Purification of the Urotensin-II Receptor

The M1 Muscarinic Receptor Allosteric Agonists AC-42 and 1-[1\(^{-}\text{H}\)H11032-(2-Methylbenzyl)-1,4\(^{-}\text{H}\)H11032-bipiperidin-4-yl]-1,3-dihydro-2H-benzimidazol-2-one Bind to a Unique Site Distinct from the Acetylcholine Orthosteric Site
Marlene A. Jacobson, Constantine Kreatsoulas, Danette M. Pascarella, Julie A. O’Brien, and Cyrilie Sur

Virtual Screening-Based Discovery and Mechanistic Characterization of the Acylthiourea MRT-10 Family as Smoothened Antagonists
Fabrizio Manetti, Helene Faure, Hermine Roudaut, Tatiana Gorojankina, Elisabeth Traiffort, Angele Schoenfelder, Andre Mann, Antonio Solinas, Maurizio Taddei, and Martial Ruat

A Functional Cross-Talk between Liver X Receptor-\(\alpha\) and Constitutive Androstane Receptor Links Lipogenesis and Xenobiotic Responses
Yonggong Zhai, Tara Wada, Bin Zhang, Shaheen Khadem, Songrong Ren, Ramalinga Kuruba, Song Li, and Wen Xie

Membrane Transport and Intracellular Sequestration of Novel Thiosemicarbazone Chelators for the Treatment of Cancer
Angelica M. Merlot, Namfon Pantarat, David B. Lovejoy, Danuta S. Kalinowski, and Des R. Richardson

Elimination of a Hydroxyl Group in FTY720 Dramatically Improves the Phosphorylation Rate
Eve Jary, Thomas Bee, Scott R. Walker, Sung-Kee Chung, Kyung-Chang Seo, Jonathan C. Morris, and Anthony S. Don

Mechanism-Based Inactivation of Cytochrome P450 3A4 by Lapatinib
Woon Chien Teng, Jing Wen Oh, Lee Sun New, Michelle D. Wahlin, Sidney D. Nelson, Han Kiat Ho, and Eric Chun Yong Chan

Synergistically Enhanced CYP2B6 Inducibility between a Polymorphic Mutation in CYP2B6 Promoter and Pregnane X Receptor Activation
Haishan Li, Stephen S. Ferguson, and Hongbing Wang
A Novel Polymorphism in a Forkhead Box A1 (FOXA1) Binding Site of the Human UDP Glucuronosyltransferase 2B17 Gene Modulates Promoter Activity and Is Associated with Altered Levels of Circulating Androstan-3α,17β-diol Glucuronide

714

Cyclopentenone Prostaglandins with Dienone Structure Promote Cross-Linking of the Chemoresistance-Inducing Enzyme Glutathione Transferase P1-1
Francisco J. Sánchez-Gómez, Beatriz Díez-Dacal, María A. Pajares, Oscar Llorca, and Dolores Pérez-Sala

723

Blockade by Nanomolar Resveratrol of Quantal Catecholamine Release in Chromaffin Cells
José Carlos Fernández-Morales, Matilde Yáñez, Francisco Orallo, Lorena Cortés, José Carlos González, Jesús Miguel Hernández-Gutiérrez, Antonio G. García, and Antonio M. G. de Diego

734

Mutagenesis of Nucleophilic Residues near the Orthosteric Binding Pocket of M1 and M2 Muscarinic receptors: Effect on the Binding of Nitrogen Mustard Analogs of Acetylcholine and McN-A-343
Hinako Suga, Gregory W. Sawyer, and Frederick J. Ehlert

745

μ-Opioid Receptors: Correlation of Agonist Efficacy for Signalling with Ability to Activate Internalization
Jamie McPherson, Guadalupe Rivero, Myma Baptist, Javier Llorente, Suleiman Al-Sabah, Cornelius Krasel, William L. Dewey, Chris P. Bailey, Elizabeth M. Rosethorne, Steven J. Charlton, Graeme Henderson, and Eamonn Kelly

756

An N-Terminal Polybasic Motif of Gq Is Required for Signaling and Influences Membrane Nanodomain Distribution
Marykate Crouthamel, Daniel Abankwa, Li Zhang, Cherisse DiLizio, David R. Manning, John F. Hancock, and Philip B. Wedegaertner

767

Negative Regulatory Effects of Mnk Kinases in the Generation of Chemotherapy-Induced Antileukemic Responses
Jessica K. Altman, Heather Glaser, Antonella Sassano, Sonali Joshi, Takeshi Ueda, Rie Watanabe-Fukunaga, Rikiro Fukunaga, Martin S. Tallman, and Leonidas C. Platanias

778

Exploring the Binding Site Crevice of a Family B G Protein-Coupled Receptor, the Type 1 Corticotropin Releasing Factor Receptor
Kostas Gkountelias, Maria Papadokostaki, Jonathan A. Javitch, and George Liapakis

785

Supplemental material is available online at http://molpharm.aspetjournals.org.

About the cover: Superposition of structures of carbamazepine (pink color) and lamotrigine (blue color) inside of the inner pore (top view). See article by Lipkind et al. on page 631 of this issue.