MINIREVIEW
Activators of G Protein Signaling Exhibit Broad Functionality and Define a Distinct Core Signaling
Triad
Joe B. Blumer and Stephen M. Lanier 388

ARTICLES
- Recovery of Current through Mutated TASK3 Potassium Channels Underlying Birk Barel Syndrome
  Emma L. Veale, Mustafa Hassan, Yvonne Walsh, Ehab Al-Moubarak, and Alistair Mathie 397

- Phosphodiesterase 5 Inhibitors Enhance Chemotherapy Killing in Gastrointestinal/Genitourinary Cancer Cells
  Laurence Booth, Jane L. Roberts, Nichola Cruickshanks, Adam Conley, David E. Durrant, Anindita Das, Paul B. Fisher, Rakesh C. Kukreja, Steven Grant, Andrew Poklepovic, and Paul Dent 408

- Pore-Exposed Tyrosine Residues of P-Glycoprotein Are Important Hydrogen-Bonding Partners for Drugs
  Yaprak Dönmez Çakil, Narakorn Khunweeraphong, Zahida Parveen, Diethart Schmid, Matthias Artaker, Gerhard F. Ecker, Harald H. Sitte, Oliver Pusch, Thomas Stockner, and Peter Chiba 420

- Novel Small Molecule Inhibitors of TLR7 and TLR9: Mechanism of Action and Efficacy In Vivo
  Marc Lamphier, Wanjun Zheng, Eicke Latz, Mark Spyvee, Hans Hansen, Jeffrey Rose, Melinda Genest, Hua Yang, Christina Shaffer, Yan Zhao, Yongchun Shen, Carrie Liu, Diana Liu, Thorsten R. Mempel, Christopher Rowbottom, Jesse Chow, Natalie C. Twine, Melvin Yu, Fabian Gusovsky, and Sally T. Ishizaka 429

- cdc-Like/Dual-Specificity Tyrosine Phosphorylation–Regulated Kinases Inhibitor Leucettine L41 Induces mTOR-Dependent Autophagy: Implication for Alzheimer’s Disease
  Xavier Pant, Émilie Durieu, Gaëtan Chicanne, Bernard Payrastre, Diego Sbrissa, Assia Shisheva, Emmanuelle Limanton, François Carraux, Jean-Pierre Bazureau, and Laurent Meijer 441

- Triapine and a More Potent Dimethyl Derivative Induce Endoplasmic Reticulum Stress in Cancer Cells

- 5’-AMP-Activated Protein Kinase Attenuates Adriamycin-Induced Oxidative Podocyte Injury through Thioredoxin-Mediated Suppression of the Apoptosis Signal-Regulating Kinase 1–P38 Signaling Pathway
  Kun Gao, Yuan Chi, Wei Sun, Masayuki Takeda, and Jian Yao 460

- Regulation of β2-Adrenergic Receptor Function by Conformationally Selective Single-Domain Intrabodies
  Dean P. Staus, Laura M. Wingler, Ryan T. Strachan, Soren G. F. Rasmussen, Els Pardon, Seungkirl Ahn, Jan Steyaert, Brian K. Kobilka, and Robert J. Lefkowitz 472
Differential Roles of Ubiquitination in the Degradation Mechanism of Cell Surface–Resident Bile Salt Export Pump and Multidrug Resistance–Associated Protein 2
Kensuke Aida, Hisamitsu Hayashi, Kaori Inamura, Tadahaya Mizuno, and Yuichi Sugiyama

Quantification of Ligand Bias for Clinically Relevant β2-Adrenergic Receptor Ligands: Implications for Drug Taxonomy
Emma T. van der Westhuizen, Billy Breton, Arthur Christopoulos, and Michel Bouvier

Mutation of Cys242 of Human Monoacylglycerol Lipase Disrupts Balanced Hydrolysis of 1- and 2-Monoacylglycerols and Selectively Impairs Inhibitor Potency
Tuomo Laitinen, Dina Navia-Paldanis, Roosa Rytilahti, Joona J. T. Marjamaa, Julie Kařízková, Teija Parkkari, Tatu Pantsar, Antti Poso, Jarmo T. Laitinen, and Juha R. Savinainen

Bcrp1;Mdr1a/b;Mrp2 Combination Knockout Mice: Altered Disposition of the Dietary Carcinogen PhIP (2-Amino-1-Methyl-6-Phenylimidazo[4,5-b]Pyridine) and Its Genotoxic Metabolites
Maria L. H. Vlaming, Sebastiaan F. Teunissen, Evita van de Steeg, Anita van Esch, Els Wagenaar, Luc Brunsveld, Tom F. A. de Greef, Hilde Rosing, Jan H. M. Schellens, Jos H. Beijnen, and Alfred H. Schinkel

ERRATUM
Correction to “The Phosphoinositide-Dependent Kinase-1 Inhibitor 2-Amino-N-[4-[5-(2-phenanthrenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]acetamide (OSU-03012) Prevents Y-Box Binding Protein-1 from Inducing Epidermal Growth Factor Receptor”

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

About the cover: Selected docking poses of 2-AG (orange, A) and 1-AG (green, B) to MAGL (PDB ID 3PE6) showing the key hydrogen bonding interaction found among highest ranking poses. See the article by Laitinen et al. (dx.doi.org/10.1124/mol.113.090795).