

MOLECULAR PHARMACOLOGY

May 2012

Volume 81

Number 5

molpharm.aspetjournals.org

ISSN 1521-0111

MINIREVIEW

mRNA Transcript Diversity Creates New Opportunities for Pharmacological Intervention

Elizabeth S. Barrie, Ryan M. Smith, Jonathan C. Sanford, and Wolfgang Sadee

620

ARTICLES

Differential Signaling by Splice Variants of the Human Free Fatty Acid Receptor GPR120

Sarah-Jane Watson, Alastair J. H. Brown, and Nicholas D. Holliday

631

Cinnabarinic Acid, an Endogenous Metabolite of the Kynurenine Pathway, Activates Type 4 Metabotropic Glutamate Receptors

F. Fazio, L. Lionetto, G. Molinaro, H. O. Bertrand, F. Acher, R. T. Ngomba, S. Notartomaso, M. Curini, O. Rosati, P. Scarselli, R. Di Marco, G. Battaglia, V. Bruno, M. Simmaco, J. P. Pin, F. Nicoletti, and C. Goudet

643

Extracellular Signal-Regulated Kinase Mitogen-Activated Protein Kinase-Dependent SOCS-3 Gene Induction Requires c-Jun, Signal Transducer and Activator of Transcription 3, and Specificity Protein 3 Transcription Factors

Jolanta Wiejak, Julia Dunlop, Shan Gao, Gillian Borland, and Stephen J. Yarwood

657

The Aryl Hydrocarbon Receptor Contributes to the Proliferation of Human Medulloblastoma Cells

Daniel P. Dever and Lisa A. Opanashuk

669

Regulation of Interferon-Inducible Proteins by Doxorubicin via Interferon γ -Janus Tyrosine Kinase-Signal Transducer and Activator of Transcription Signaling in Tumor Cells

J. Hussner, S. Ameling, E. Hammer, S. Herzog, L. Steil, M. Schwebe, J. Niessen, H. W. S. Schroeder, H. K. Kroemer, C. A. Ritter, U. Völker, and S. Bien

679

Agonist-Dependent Potentiation of Vanilloid Receptor Transient Receptor Potential Vanilloid Type 1 Function by Stilbene Derivatives

Xuan Zhang, Xiao-Na Du, Guo-Hong Zhang, Zhan-Feng Jia, Xing-Juan Chen, Dong-Yang Huang, Bo-Yi Liu, and Hai-Lin Zhang

689

Human Papilloma Virus 16 E6 RNA Interference Enhances Cisplatin and Death Receptor-Mediated Apoptosis in Human Cervical Carcinoma Cells

Shinta Tan, Brigitte M. T. Hougardy, Gert J. Meersma, Bessel Schaap, Elisabeth G. E. de Vries, Ate G. J. van der Zee, and Steven de Jong

701

A Series of $\alpha 7$ Nicotinic Acetylcholine Receptor Allosteric Modulators with Close Chemical Similarity but Diverse Pharmacological Properties

JasKiran K. Gill, Persis Dhankher, Tom D. Sheppard, Emanuele Sher, and Neil S. Millar

710

Anticancer Activity of Methyl-Substituted Oxaliplatin Analogs

Ute Jungwirth, Dimitris N. Xanthos, Johannes Gojo, Anna K. Bytzek, Wilfried Körner, Petra Heffeter, Sergey A. Abramkin, Michael A. Jakupec, Christian G. Hartinger, Ursula Windberger, Markus Galanski, Bernhard K. Keppler, and Walter Berger

719

- Ligand-Specific Roles for Transmembrane 5 Serine Residues in the Binding and Efficacy of Dopamine D₁ Receptor Catechol Agonists
Benjamin R. Chemel, Lisa A. Bonner, Val J. Watts, and David E. Nichols 729
- Time-Dependent Interaction between Differentiated Embryo Chondrocyte-2 and CCAAT/Enhancer-Binding Protein α Underlies the Circadian Expression of *CYP2D6* in Serum-Shocked HepG2 Cells
Naoya Matsunaga, Miki Inoue, Naoki Kusunose, Keisuke Kakimoto, Kengo Hamamura, Yuichi Hanada, Ayumi Toi, Yuji Yoshiyama, Fuyuki Sato, Katsumi Fujimoto, Satoru Koyanagi, and Shigehiro Ohdo 739
- ▣ Lapatinib and Obatoclox Kill Tumor Cells through Blockade of ERBB1/3/4 and through Inhibition of BCL-xL and MCL-1
Nichola Cruickshanks, Hossein A. Hamed, M. Danielle Bareford, Andrew Poklepovic, Paul B. Fisher, Steven Grant, and Paul Dent 748

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

About the cover: Homology model of mGlu4 with cinnabarinic acid docked at the glutamate binding site. See article by Fazio et al. on page 643 of this issue.