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Biochemical Pharmacology





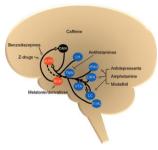
Biochemical Pharmacology, Volume 79, issue 6, 15 March 2010 Contents

COMMENTARY

Good night and good luck: Norepinephrine in sleep pharmacology

Heather A. Mitchell, David Weinshenker



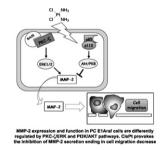


ANTIBIOTICS AND CHEMOTHERAPEUTICS

Effects of cisplatin on matrix metalloproteinase-2 in transformed thyroid cells

810-816

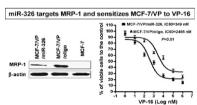
L. Urso, A. Muscella, N. Calabriso, C. Vetrugno, E. Jiménez, M. Montiel, S. Marsigliante



Involvement of miR-326 in chemotherapy resistance of breast cancer through modulating expression of multidrug resistance-associated protein 1

817-824

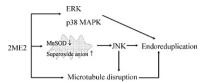
Zhongxing Liang, Hui Wu, James Xia, Yuhua Li, Yawei Zhang, Ke Huang, Nicholas Wagar, Younghyoun Yoon, Heidi T. Cho, Stefania Scala, Hyunsuk Shim



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2-Methoxyestradiol induces endoreduplication through the induction of mitochondrial 825–841 oxidative stress and the activation of MAPK signaling pathways

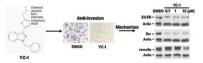
C.M. Ting, Y.M. Lee, C.K.C. Wong, A.S. Wong, H.L. Lung, M.L. Lung, K.W. Lo, R.N.S. Wong, N.K. Mak



Reverse phase protein array identifies novel anti-invasion mechanisms of YC-1

842-852

Bo Hong, Vivian W.Y. Lui, Edwin P. Hui, Yiling Lu, Horasis S.Y. Leung, Elaine Y.L. Wong, Suk-Hang Cheng, Margaret H.L. Ng, Gordon B. Mills, Anthony T.C. Chan



AMPK-independent down-regulation of cFLIP and sensitization to TRAIL-induced apoptosis by AMPK activators

853-863

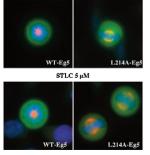
Celina García-García, Claudia Fumarola, Naveenan Navaratnam, David Carling, Abelardo López-Rivas



Mutations in the human kinesin Eg5 that confer resistance to monastrol and S-trityl-L-cysteine in tumor derived cell lines

864-872

Sergey Tcherniuk, Robert van Lis, Frank Kozielski, Dimitrios A. Skoufias



Monastrol 100 μM

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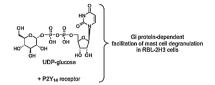
INFLAMMATION AND IMMUNOPHARMACOLOGY

UDP-glucose acting at P2Y₁₄ receptors is a mediator of mast cell degranulation

873-879

Zhan-Guo Gao, Yi Ding, Kenneth A. Jacobson

Inhibition of the P2Y₁₄ receptor may be a novel target for therapeutic intervention of asthma and allergic conditions.

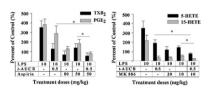


Inhibition of soluble epoxide hydrolase enhances the anti-inflammatory effects of aspirin and 5-lipoxygenase activation protein inhibitor in a murine model

880-887

Jun-Yan Liu, Jun Yang, Bora Inceoglu, Hong Qiu, Arzu Ulu, Sung-Hee Hwang, Nipavan Chiamvimonvat, Bruce D. Hammock

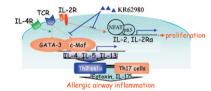
Dual inhibition of two branches of the AA acid cascade synergistically decreases inflammatory mediators.



Anti-allergic function and regulatory mechanisms of KR62980 in allergen-induced airway inflammation

888-896

Hee Yeon Won, Hyun Jung Min, Jin Hee Ahn, Sung-Eun Yoo, Myung Ae Bae, Jeong-Ho Hong, Eun Sook Hwang



NEUROPHARMACOLOGY

Development of tolerance in D3 dopamine receptor signaling is accompanied by distinct changes in receptor conformation

897-907

Ligia Westrich, Sara Gil-Mast, Sandhya Kortagere, Eldo V. Kuzhikandathil

The D3 dopamine receptor tolerance property develops after the removal of the agonist and is accompanied by distinct changes in receptor conformation which uncouples the receptor from its signaling cascade.



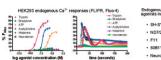
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Characterization of endogenous calcium responses in neuronal cell lines

908-920

Irina Vetter. Richard I. Lewis

Institute for Molecular Bioscience, The University of Queensland, St Lucia, Queensland 4072, Australia



Endogenous responses to 19 agonists in 5 neuronal cell lines

• SH-SY5Y

• ND7/23

• F11

• 50B11

PHARMACOKINETICS AND DRUG METABOLISM

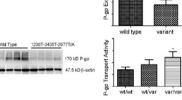
Modulation of human placental P-glycoprotein expression and activity by MDR1 gene polymorphisms

921-925

Sarah J. Hemauer, Tatiana N. Nanovskaya, Sherif Z. Abdel-Rahman, Svetlana L. Patrikeeva, Gary D.V. Hankins, Mahmoud S. Ahmed

Department of Obstetrics & Gynecology, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX, 77555-0587, USA

Single nucleotide polymorphisms C1236T, C3435T, and G2677T/A in the *MDR*1 gene are associated with reduced placental P-gp protein expression yet increased transport of P-gp substrate, paclitaxel.

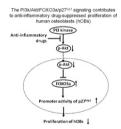


Toxicology

The PI3K/Akt/FOXO3a/p27^{Kip1} signaling contributes to anti-inflammatory drug-suppressed proliferation of human osteoblasts

926-937

Ching-Ju Li, Je-Ken Chang, Chia-Hsuan Chou, Gwo-Jaw Wang, Mei-Ling Ho



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