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Biochemical Pharmacology





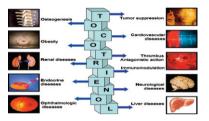
Biochemical Pharmacology, Volume 80, issue 11, 1 December 2010 Contents

COMMENTARY

Tocotrienols, the vitamin E of the 21st century: Its potential against cancer and other chronic diseases

1613-1631

Bharat B. Aggarwal, Chitra Sundaram, Seema Prasad, Ramaswamy Kannappan



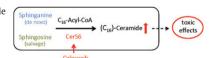
ANTIBIOTICS AND CHEMOTHERAPEUTICS

Activation of ceramide synthase 6 by celecoxib leads to a selective induction of $C_{16:0}$ -ceramide

1632-1640

Susanne Schiffmann, Simone Ziebell, Jessica Sandner, Kerstin Birod, Klaus Deckmann, Daniela Hartmann, Sina Rode, Helmut Schmidt, Carlo Angioni, Gerd Geisslinger, Sabine Grösch

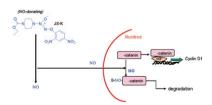
Treatment of cancer cells with celecoxib led to a significant increase of C16:0-Cer via the specific activation of ceramide synthase 6 (CerS6). The increase in C16:0-Cer contributes in part to the proapoptotic effect of celecoxib.



JS-K; a nitric oxide-releasing prodrug, modulates β -catenin/TCF signaling in leukemic Jurkat cells: Evidence of an S-nitrosylated mechanism

1641-1649

Niharika Nath, Mitali Chattopadhyay, Liliya Pospishil, Lucyna Z. Cieciura, Satindra Goswami, Ravinder Kodela, Joseph E. Saavedra, Larry K. Keefer, Khosrow Kashfi

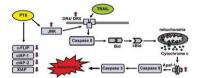


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Pentoxifylline augments TRAIL/Apo2L mediated apoptosis in cutaneous T cell lymphoma (HuT-78 and MyLa) by modulating the expression of antiapoptotic proteins and death receptors

1650-1661

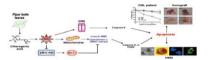
Satindra Gahlot, Mohammad Aslam Khan, Loveena Rishi, Sekhar Majumdar Schematic diagram of the apoptotic pathway induced by the combined treatment with PTX and TRAIL.



Involvement of ROS in chlorogenic acid-induced apoptosis of Bcr-Abl1 CML cells

1662-1675

Srabanti Rakshit, Labanya Mandal, Bikas Chandra Pal, Jayashree Bagchi, Nabendu Biswas, Jaydeep Chaudhuri, Avik Acharya Chowdhury, Anirban Manna, Utpal Chaudhuri, Aditya Konar, Tulika Mukherjee, Parasuraman Jaisankar, Santu Bandyopadhyay



CARDIOVASCULAR PHARMACOLOGY

Direct fusion of subunits of heterodimeric nitric oxide sensitive guanylyl cyclase leads to functional enzymes with preserved biochemical properties: Evidence for isoform specific activation by ciguates

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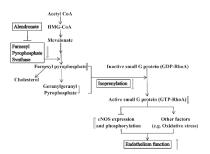
Nadine Haase, Tobias Haase, Jan Robert Kraehling, Soenke Behrends



Chronic inhibition of farnesyl pyrophosphate synthase improves endothelial function in spontaneously hypertensive rats

1684-1689

Guo-Ping Chen, Liang Li, Yin Yang, Michael Fu, Lei Yao, Tao Wu, Xiao-Qin Zhang, Shen-Jiang Hu



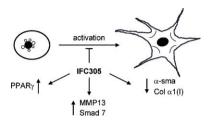
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Gabriela Velasco-Loyden, Julio Isael Pérez-Carreón, José Fernando Cabello Agüero, Pilar Cabrales Romero, Susana Vidrio-Gómez, Lidia Martínez-Pérez, Lucia Yáñez-Maldonado, Rolando Hernández-Muñoz, Marina Macías-Silva, Victoria Chagoya de Sánchez

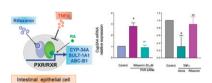


Pregnane-X-receptor mediates the anti-inflammatory activities of rifaximin on detoxification pathways in intestinal epithelial cells

1700-1707

Andrea Mencarelli, Marco Migliorati, Miriam Barbanti, Sabrina Cipriani, Giuseppe Palladino, Eleonora Distrutti, Barbara Renga, Stefano Fiorucci

Rifaximin a non-absorbable antibiotic, is a PXR ligand that increases the expression of genes involved in the metabolism and excretion of xenobiotics, antagonizing the effects of TNF_{α} in human intestinal epithelial cells and colon biopsies. Abbreviations: RA, retinoic acid; CYP-3A4, cytochrome P450-3A4; SULTA1, sulfotransferase-1A1; ABC-B1, ATP binding cassette superfamily, subfamily B, member 1; PXR siRNA, small interfering RNA for PXR (pregnane-X-receptor).

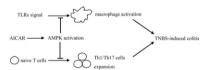


INFLAMMATION AND IMMUNOPHARMACOLOGY

AMPK agonist downregulates innate and adaptive immune responses in TNBS-induced murine acute and relapsing colitis

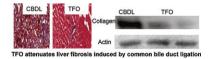
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Aiping Bai, Allan G. Ma, Michael Yong, Carolyn R. Weiss, Yanbing Ma, Qingdong Guan, Charles N. Bernstein, Zhikang Peng



Triplex forming oligonucleotides against type $\alpha 1(I)$ collagen attenuates liver fibrosis 1718–1726 induced by bile duct ligation

Ravikiran Panakanti, Akshay Pratap, Ningning Yang, John S. Jackson, Ram I. Mahato

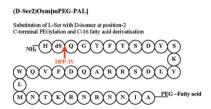


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Barry D. Kerr, Peter R. Flatt, Victor A. Gault



Mechanisms of metformin action on glucose transport and metabolism in human adipocytes 1736–1745

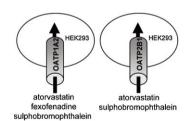
Jean Grisouard, Katharina Timper, Tanja M. Radimerski, Daniel M. Frey, Ralph Peterli, Blerina Kola, Márta Korbonits, Paul Herrmann, Stephan Krähenbühl, Henryk Zulewski, Ulrich Keller, Beat Müller⁴, Mirjam Christ-Crain

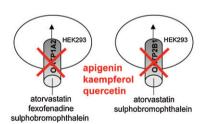


PHARMACOKINETICS AND DRUG METABOLISM

Influence of the flavonoids apigenin, kaempferol, and quercetin on the function of organic anion transporting polypeptides 1A2 and 2B1

Kathrin Mandery, Krystyna Bujok, Ingrid Schmidt, Markus Keiser, Werner Siegmund, Bettina Balk, Jörg König, Martin F. Fromm, Hartmut Glaeser

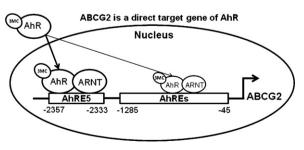




A novel xenobiotic responsive element regulated by aryl hydrocarbon receptor is involved in the induction of BCRP/ABCG2 in LS174T cells

1754-1761

Leslie M. Tompkins, Haishan Li, Linhao Li, Caitlin Lynch, Yi Xie, Takeo Nakanishi, Douglas D. Ross, Hongbing Wang



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Toxicology

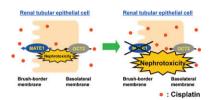
Disruption of multidrug and toxin extrusion MATE1 potentiates cisplatin-induced nephrotoxicity

1762-1767

1768

Takanori Nakamura, Atsushi Yonezawa, Shinya Hashimoto, Toshiya Katsura, Ken-ichi Inui

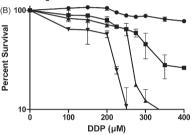
Inhibition of MATE1 by genetic disruption and a specific inhibitor increased the renal accumulation of cisplatin and subsequently potentiated cisplatin-induced nephrotoxicity.



CORRIGENDUM

Corrigendum to "The role of the N-terminus of mammalian copper transporter 1 in the cellular accumulation of cisplatin" [Biochem. Pharmacol. 80 (2010) 448–454]

Christopher A. Larson, Preston L. Adams, Danielle D. Jandial, Brian G. Blair, Roohangiz Safaei, Stephen B. Howell



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