



Biochemical Pharmacology, Volume 80, issue 6, 15 September 2010

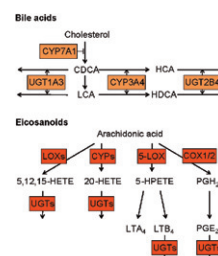
Contents

COMMENTARY

Functions and transcriptional regulation of adult human hepatic UDP-glucuronosyl-transferases (UGTs): Mechanisms responsible for interindividual variation of UGT levels

771–777

Karl Walter Bock

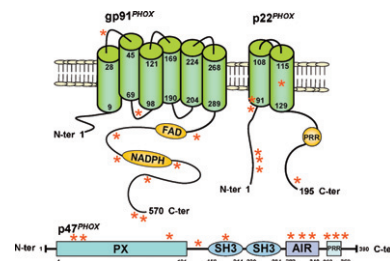


Peptide-based inhibitors of the phagocyte NADPH oxidase

778–785

Jamel El-Benna, Pham My-Chan Dang, Axel Périanin

*Represents the localization of the inhibitory peptides.



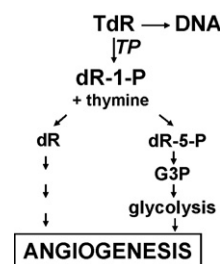
ANTIBIOTICS AND CHEMOTHERAPEUTICS

Accumulation of thymidine-derived sugars in thymidine phosphorylase overexpressing cells

786–792

I.V. Bijnsdorp, K. Azijli, E.E. Jansen, M.M. Wamelink, C. Jakobs, E.A. Struys, M. Fukushima, F.A.E. Kruij, G.J. Peters

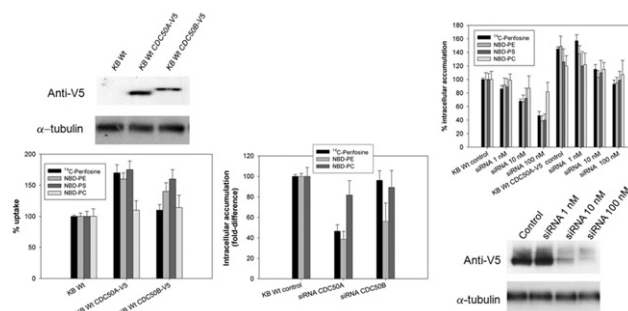
Thymidine (TdR) is converted by thymidine phosphorylase (TP) to deoxyribose-1-phosphate (dR-1-P), which can enter various metabolic pathways, which potentially contribute to TP mediated angiogenesis. dR = Deoxyribose, dR-1-P = deoxyribose-1-phosphate, dR-5-P = deoxyribose-5-phosphate, G3P = glyceraldehyde-3-phosphate.



CDC50A plays a key role in the uptake of the anticancer drug perifosine in human carcinoma cells

793–800

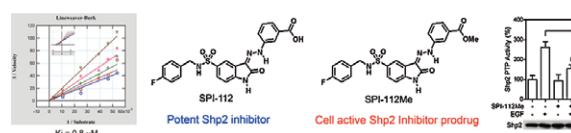
Francisco Muñoz-Martínez, Cristina Torres, Santiago Castanys, Francisco Gamarro



Inhibition of cellular Shp2 activity by a methyl ester analog of SPI-112

801–810

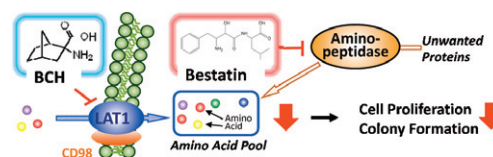
Liwei Chen, Daniele Pernazza, Latanya M. Scott, Harshani R. Lawrence, Yuan Ren, Yunting Luo, Xin Wu, Shen-Shu Sung, Wayne C. Guida, Said M. Sebti, Nicholas J. Lawrence, Jie Wu



Impact of system L amino acid transporter 1 (LAT1) on proliferation of human ovarian cancer cells: A possible target for combination therapy with anti-proliferative aminopeptidase inhibitors

811–818

Xuetao Fan, Douglas D. Ross, Hiroshi Arakawa, Vadivel Ganapathy, Ikumi Tamai, Takeo Nakanishi

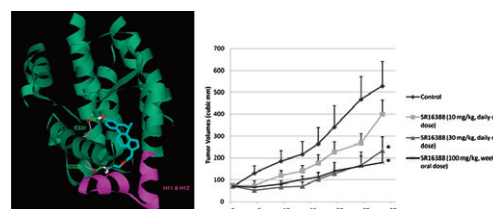


A novel steroidal inhibitor of estrogen-related receptor α (ERRα)

819–826

Sarah J. Duellman, Joy M. Calaoagan, Barbara G. Sato, Richard Fine, Boris Klebansky, Wan-Ru Chao, Peter Hobbs, Nathan Collins, Lidia Sambucetti, Keith R. Laderoute

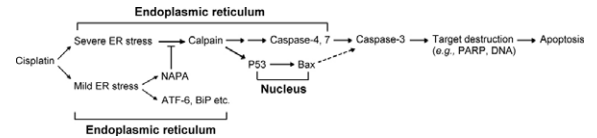
A selective, purely steroidal inhibitor of ERRα has utility both as an experimental anticancer agent and as a chemical probe of ERRα biology. SR16388 inhibits tumor growth of PC3 prostate cancer xenografts in nude mice.



Knockdown of NAPA using short-hairpin RNA sensitizes cancer cells to cisplatin: Implications to overcome chemoresistance

827–837

Zchong-Zcho Wu, Chuck C.-K. Chao

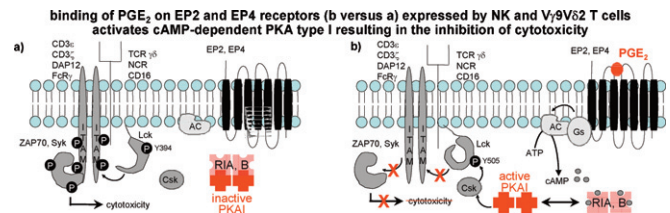


INFLAMMATION AND IMMUNOPHARMACOLOGY

PGE₂ inhibits natural killer and $\gamma\delta$ T cell cytotoxicity triggered by NKR and TCR through a cAMP-mediated PKA type I- dependent signaling

838–845

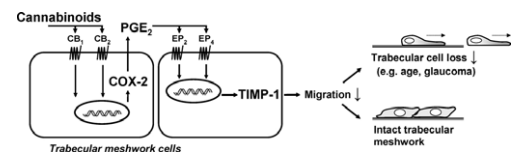
Ludovic Martinet, Christine Jean, Gilles Dietrich, Jean-Jacques Fournié, Rémy Poupot



Cyclooxygenase-2 and tissue inhibitor of matrix metalloproteinases-1 confer the antimigratory effect of cannabinoids on human trabecular meshwork cells

846–857

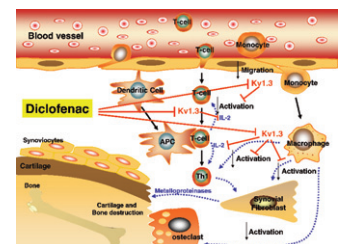
Robert Ramer, Burkhard Hinz



Immunomodulatory effects of diclofenac in leukocytes through the targeting of Kv1.3 voltage-dependent potassium channels

858–866

Núria Villalonga, Miren David, Joanna Bielańska, Teresa González, David Parra, Concepció Soler, Núria Comes, Carmen Valenzuela, Antonio Felipe



METABOLIC DISORDERS AND ENDOCRINOLOGY

Regulation of Nur77 protein turnover through acetylation and deacetylation induced by p300 and HDAC1

867–873

Shin-Ae Kang, Hyelin Na, Hyun-Jin Kang, Sung-Hye Kim, Min-Ho Lee, Mi-Ock Lee

Schematic model for regulation of Nur77 protein turnover with modulation of acetylation status by p300 and HDAC1.

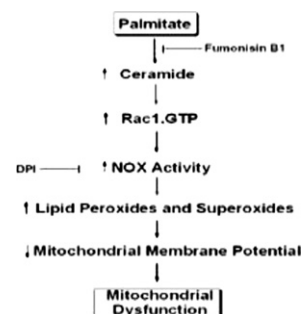


Tiam1/Rac1 signaling pathway mediates palmitate-induced, ceramide-sensitive generation of superoxides and lipid peroxides and the loss of mitochondrial membrane potential in pancreatic β -cells

874–883

Ismail Syed, Bhavaani Jayaram, Wasanthi Subasinghe, Anjaneyulu Kowluru

Proposed mechanism for palmitate induced NADPH oxidase leading to mitochondrial dysfunction in the pancreatic beta-cell.



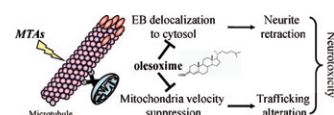
NEUROPHARMACOLOGY

Olesoxime prevents microtubule-targeting drug neurotoxicity: Selective preservation of EB comets in differentiated neuronal cells

884–894

Amandine Rovini, Manon Carré, Thierry Bordet, Rebecca M. Pruss, Diane Braguer

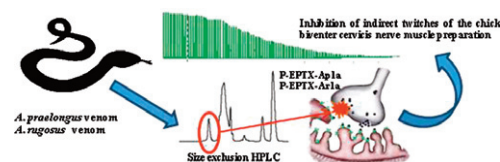
Mechanism of olesoxime neuroprotection against microtubule-targeting agents (MTAs)-induced damages in human and rat neuron-like cells.



Isolation and characterisation of P-EPTX-Ap1a and P-EPTX-Ar1a: Pre-synaptic neurotoxins from the venom of the northern (*Acanthophis praelongus*) and Irian Jayan (*Acanthophis rugosus*) death adders

895–902

Janeyuth Chaisakul, Nicki Konstantakopoulos, A. Ian Smith, Wayne C. Hodgson

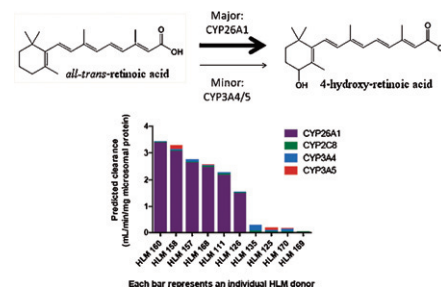


PHARMACOKINETICS AND DRUG METABOLISM

The relative importance of CYP26A1 in hepatic clearance of all-trans retinoic acid

903–912

Jayne E. Thatcher, Alex Zelter, Nina Isoherranen



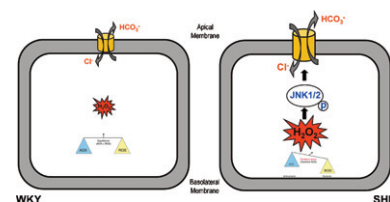
PULMONARY, RENAL AND HEPATIC PHARMACOLOGY

Increased responsiveness to JNK1/2 mediates the enhanced H₂O₂-induced stimulation of Cl⁻/HCO₃⁻ exchanger activity in immortalized renal proximal tubular epithelial cells from the SHR

913–919

S. Simão, P. Gomes, P.A. Jose, P. Soares-da-Silva

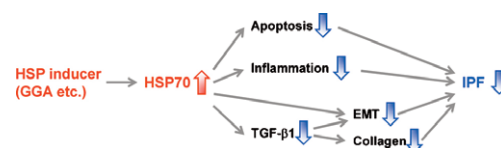
H₂O₂-induced stimulation of Cl⁻/HCO₃⁻ exchanger activity is regulated by JNK1/2 in SHR cells. The imbalance between oxidant–antioxidant mechanisms in SHR cells enhances the response of JNK1/2 to H₂O₂, which contributes to their increased sensitivity.



Heat shock protein 70 protects against bleomycin-induced pulmonary fibrosis in mice

920–931

Ken-Ichiro Tanaka, Yuta Tanaka, Takushi Namba, Arata Azuma, Tohru Mizushima

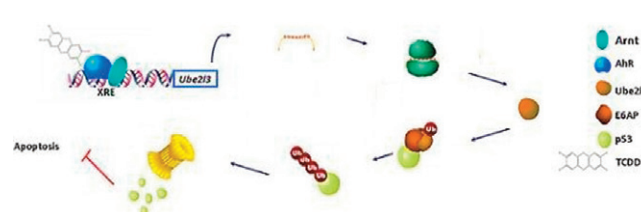


TOXICOLOGY

Ube2I3 gene expression is modulated by activation of the aryl hydrocarbon receptor: Implications for p53 ubiquitination

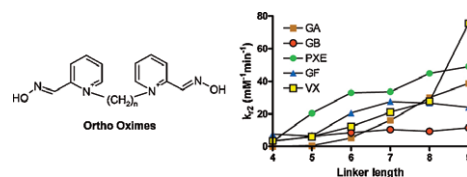
932–940

O.D. Reyes-Hernández, A. Mejía-García, E.M. Sánchez-Ocampo, M.A. Cabañas-Cortés, P. Ramírez, L. Chávez-González, F.J. Gonzalez^e, G. Elizondo



Kinetic analysis of interactions between alkylene-linked bis-pyridiniumaldoximes and 941–946 human acetylcholinesterases inhibited by various organophosphorus compounds

Timo Wille, Fredrik Ekström, Jong-Cheol Lee, Yuan-Ping Pang, Horst Thiermann, Franz Worek



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