



Biochemical Pharmacology, Volume 78, issue 2, 15 July 2009

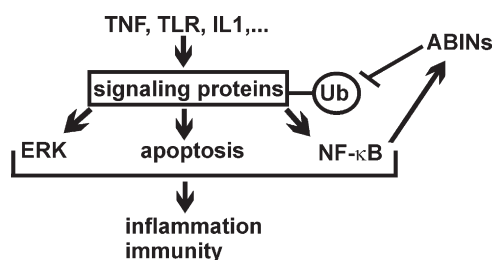
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RESEARCH UPDATE

ABINs: A20 binding inhibitors of NF- κ B and apoptosis signaling

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Lynn Verstreppe, Isabelle Carpentier, Kelly Verhelst, Rudi Beyaert

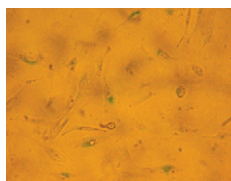


ANTIBIOTICS AND CHEMOTHERAPEUTICS

G-quadruplex compounds and cis-platin act synergistically to inhibit cancer cell growth in vitro and in vivo

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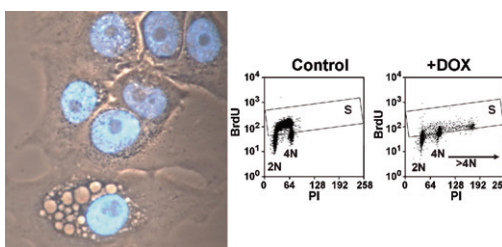
Mekala Gunaratnam, Colin Green, João Bruno Moreira, Adam D. Moorhouse, Lloyd R. Kelland, John E. Moses, Stephen Neidle
Senescent cells after 1 week treatment with a combination of cis-platin and the acridine compound AS1410.



A nuclear budding mechanism in transiently arrested cells generates drug-sensitive and drug-resistant cells

p 123–132

Sylvia Mansilla, Marc Bataller, José Portugal

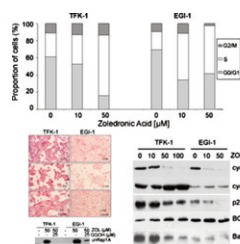


Zoledronic acid determines S-phase arrest but fails to induce apoptosis in cholangiocarcinoma cells

p 133–141

Antonello A. Romani, Silvia Desenzani, Marina M. Morganti, Silvia La Monica, Angelo F. Borghetti, Paolo Soliani

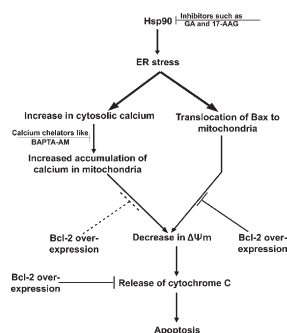
Zoledronic acid (ZOL) induces an S-phase arrest by altering cell cycle regulators and allowing survival of cholangiocarcinoma cells by changing the delicate balance between anti- and pro-apoptotic proteins.



Hsp90 inhibitors, GA and 17AAG, lead to ER stress-induced apoptosis in rat histiocytoma

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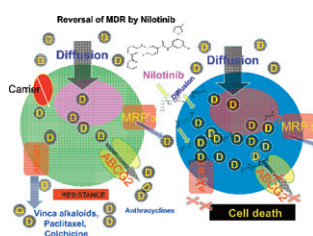
Aftab Taiyab, Amere S. Sreedhar, Ch. Mohan Rao



Nilotinib (AMN107, Tasigna®) reverses multidrug resistance by inhibiting the activity of the ABCB1/Pgp and ABCG2/BCRP/MXR transporters

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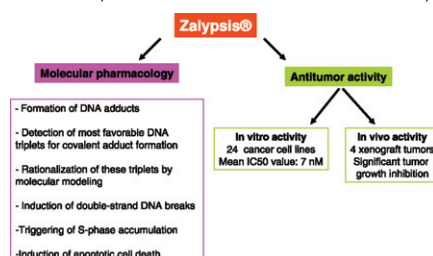
Amit K. Tiwari, Kamlesh Sodani, Si-Rong Wang, Ye-Hong Kuang, Charles R. Ashby Jr., Xiang Chen, Zhe-Sheng Chen



Molecular pharmacology and antitumor activity of Zalypsis® in several human cancer cell lines

p 162–170

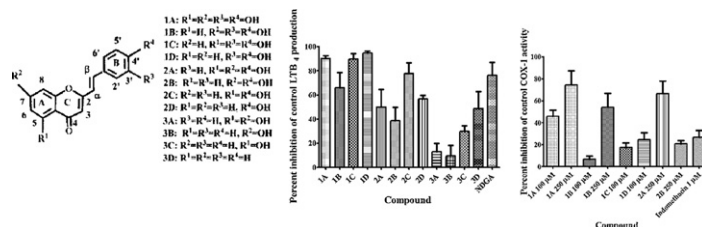
Juan F.M. Leal, Verónica García-Hernández, Victoria Moneo, Alberto Domingo, Juan Antonio Bueren-Calabuig, Ana Negri, Federico Gago, María José Guillén-Navarro, Pablo Avilés, Carmen Cuevas, Luis Francisco García-Fernández, Carlos María Galmarini



INFLAMMATION AND IMMUNOPHARMACOLOGY

Anti-inflammatory potential of 2-styrylchromones regarding their interference with arachidonic acid metabolic pathways p 171–177

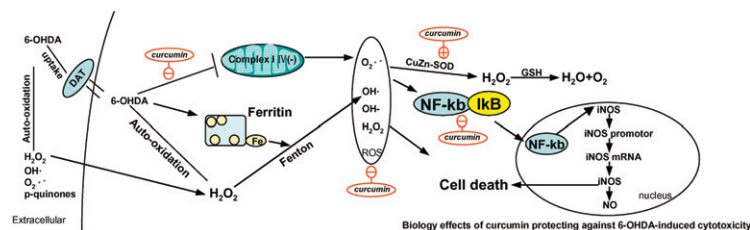
Ana Gomes, Eduarda Fernandes, Artur M.S. Silva, Diana C.G.A. Pinto, Clementina M.M. Santos, José A.S. Cavaleiro, José L.F.C. Lima



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Curcumin attenuates 6-hydroxydopamine-induced cytotoxicity by anti-oxidation and nuclear factor-kappaB modulation in MES23.5 cells p 178–183

Jun Wang, Xi-Xun Du, Hong Jiang, Jun-Xia Xie

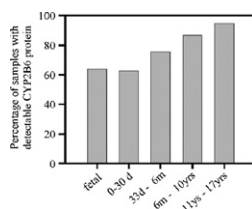


PHARMACOKINETICS AND DRUG METABOLISM

Human hepatic CYP2B6 developmental expression: The impact of age and genotype p 184–190

Edward L. Croom, Jeffrey C. Stevens, Ronald N. Hines, Andrew D. Wallace, Ernest Hodgson

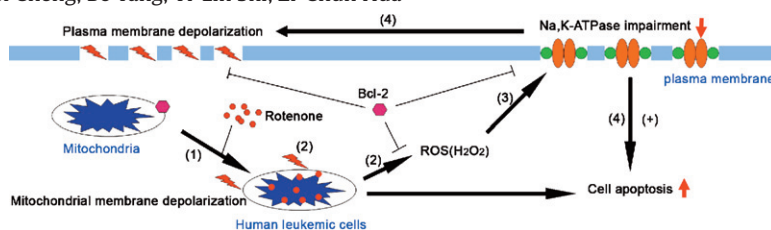
The percentage of pediatric liver samples with detectable CYP2B6 increased with age. Median CYP2B6 levels were higher in >30 days postnatal age samples compared to <30 days postnatal age samples.



TOXICOLOGY

Plasma membrane depolarization and Na,K-ATPase impairment induced by mitochondrial toxins augment leukemia cell apoptosis via a novel mitochondrial amplification mechanism p 191–202

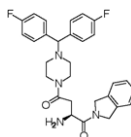
Wu Yin, Xiang Li, Su Feng, Wei Cheng, Bo Tang, Yi-Lin Shi, Zi-Chun Hua



Biochemistry, pharmacokinetics, and toxicology of a potent and selective DPP8/9 inhibitor**p 203–210**

Jia-Jing Wu, Hung-Kuan Tang, Teng-Kuang Yeh, Chi-Min Chen, Hrong-Shing Shy, Yue-Ru Chu, Chia-Hui Chien, Ting-Yueh Tsai, Yu-Chen Huang, Yu-Lin Huang, Chih-Hsiang Huang, Huan-Yi Tseng, Weir-Torn Jiaang, Yu-Sheng Chao, Xin Chen

No animal toxicities observed in a two-week study with Sprague–Dawley rats using a DPP8/9 inhibitor, which has high potency and selectivity, good membrane penetration and adequate tissue distribution.



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