



Biochemical Pharmacology, Volume 77, issue 12, 15 June 2009

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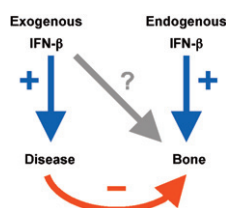
COMMENTARY

Mechanisms of interferon- β effects on bone homeostasis

1757–1762

Anson K. Abraham, Murali Ramanathan, Bianca Weinstock-Guttman, Donald E. Mager

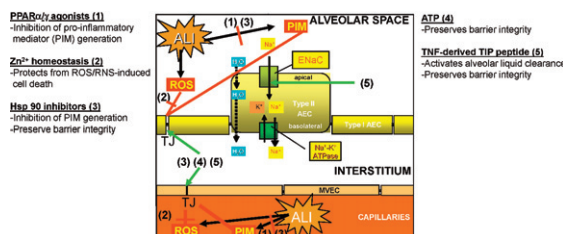
The interplay between interferon- β (IFN- β), bone tissue, and bone-related diseases is complex. This commentary highlights new mechanisms of bone homeostatic regulation mediated through the induction of endogenous IFN- β .



Regulators of endothelial and epithelial barrier integrity and function in acute lung injury

1763–1772

Rudolf Lucas, Alexander D. Verin, Stephen M. Black, John D. Catravas



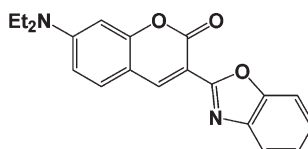
ANTIBIOTICS AND CHEMOTHERAPEUTICS

7-Diethylamino-3(2'-benzoxazolyl)-coumarin is a novel microtubule inhibitor with antimitotic activity in multidrug resistant cancer cells

1773–1779

Su-Nam Kim, Nam Hyun Kim, Yeon Sook Park, Hanna Kim, Seokjoon Lee, Qian Wang, Yong Kee Kim

A novel synthetic microtubule inhibitor 7-diethylamino-3(2'-benzoxazolyl)-coumarin for treatment of multidrug resistant cancer.

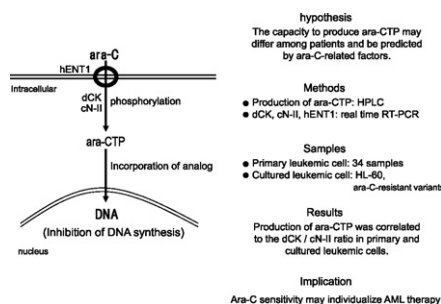


A novel synthetic microtubule inhibitor 7-Diethylamino-3(2'-benzoxazolyl)-coumarin for treatment of multidrug resistant cancer

Intracellular cytarabine triphosphate production correlates to deoxycytidine kinase/cytosolic 5'-nucleotidase II expression ratio in primary acute myeloid leukemia cells

1780–1786

Takahiro Yamauchi, Eiju Negoro, Shinji Kishi, Kazutaka Takagi, Akira Yoshida, Yoshimasa Urasaki, Hiromichi Iwasaki, Takanori Ueda

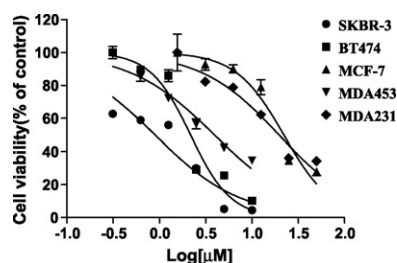


A COX-2 inhibitor nimesulide analog selectively induces apoptosis in Her2 overexpressing breast cancer cells via cytochrome c dependent mechanisms

1787–1794

Bin Chen, Bin Su, Shiuan Chen

Compound 76 selectively suppressed Her2 positive SKBR-3, BT474 and MDA-MB-453 breast cancer cell proliferation with IC_{50} of 0.9 μ M, 2.2 μ M and 4.0 μ M respectively via inducing cell apoptosis.

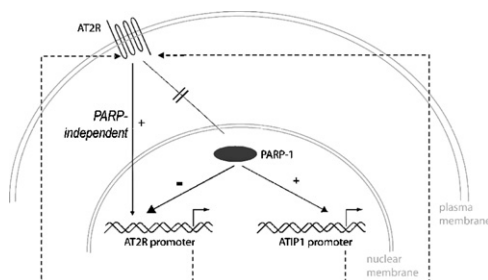


CARDIOVASCULAR PHARMACOLOGY

Poly(ADP-ribose) polymerase-1 (PARP-1) transcriptionally regulates angiotensin AT2 receptor (AT2R) and AT2R binding protein (ATBP) genes

1795–1805

Jana Reinemund, Kerstin Seidel, Ulrike M. Steckelings, Daniela Zaade, Sabrina Klare, Franziska Rompe, Marlen Katerbaum, Jens Schacherl, Yaosi Li, Mario Menk, Jan H. Schefe, Petra Goldin-Lang, Csaba Szabo, Gabor Olah, Thomas Unger, Heiko Funke-Kaiser

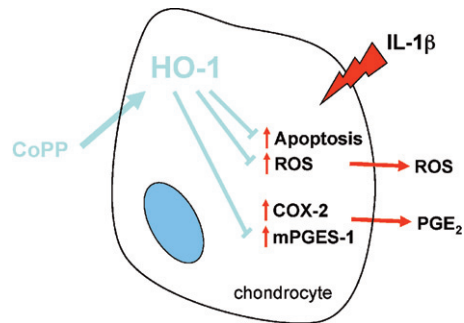


INFLAMMATION AND IMMUNOPHARMACOLOGY

Heme oxygenase-1 induction modulates microsomal prostaglandin E synthase-1 expression and prostaglandin E₂ production in osteoarthritic chondrocytes

1806–1813

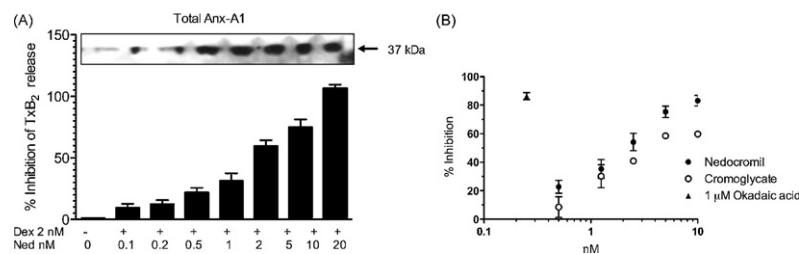
Javier Megías, María Isabel Guillén, Victoria Clérigues, Ana I. Rojo, Antonio Cuadrado, Miguel Angel Castejón, Francisco Gomar, María José Alcaraz



Cromoglycate drugs suppress eicosanoid generation in U937 cells by promoting the release of Anx-A1

1814–1826

Samia Yazid, Egle Solito, Helen Christian, Simon McArthur, Nicolas Goulding, Roderick Flower

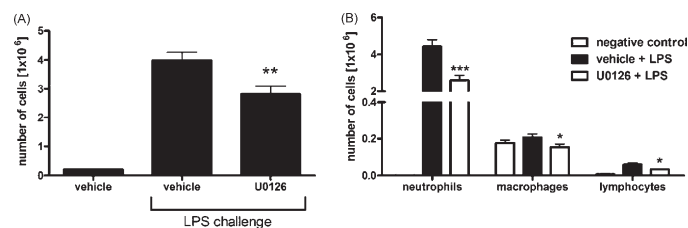


Inhibition of the MAP kinase ERK protects from lipopolysaccharide-induced lung injury

1827–1834

Katrin Schuh, Andreas Pahl

Inhibition of the MAP kinase ERK reduces inflammation in a murine model of acute lung injury.

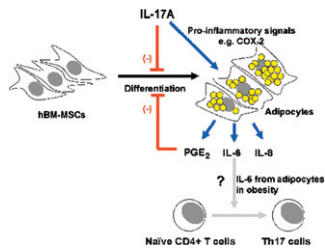


METABOLIC DISORDERS AND ENDOCRINOLOGY

Interleukin-17A inhibits adipocyte differentiation in human mesenchymal stem cells and regulates pro-inflammatory responses in adipocytes 1835–1844

Jennifer H. Shin, Dong Wook Shin, Minsoo Noh

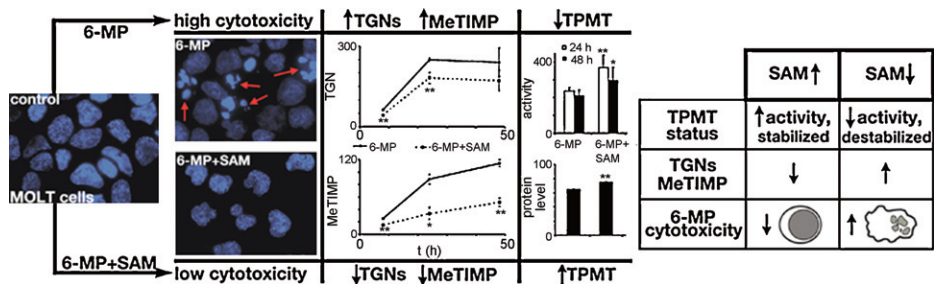
IL-17A inhibits adipocyte differentiation in hBM-MSCs. IL-17A also stimulates the secretion of pro-inflammatory PGE₂, IL-6, and IL-8 from adipocytes. This implicates that IL-17A may play a role in the crosstalk between adipose tissue and Th17 cell-associated immune responses. It is still unclear whether adipocyte-derived IL-6 contributes to the development of Th17 cells.



PHARMACOKINETICS AND DRUG METABOLISM

S-adenosylmethionine regulates thiopurine methyltransferase activity and decreases 6-mercaptopurine cytotoxicity in MOLT lymphoblasts 1845–1853

Miha Milek, Natasa Karas Kuzelicki, Alenka Smid, Irena Mlinaric-Rascan



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