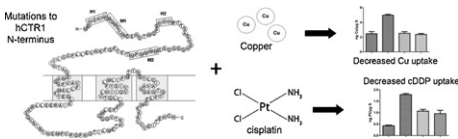


The role of the N-terminus of mammalian copper transporter 1 in the cellular accumulation of cisplatin

448–454

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

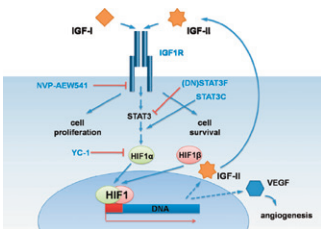


The IGF1R inhibitor NVP-AEW541 disrupts a pro-survival and pro-angiogenic IGF-STAT3-HIF1 pathway in human glioblastoma cells

455–462

Marzia B. Gariboldi, Raffaella Ravizza, Elena Monti

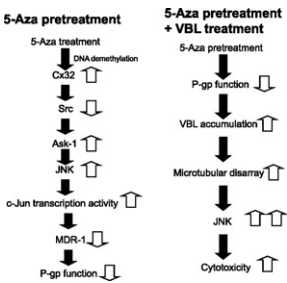
An autocrine circuit, involving IGF1R, STAT3, HIF1 α and IGF-II operates in human glioblastoma cells.



Up-regulation of connexin 32 gene by 5-aza-2'-deoxycytidine enhances vinblastine-induced cytotoxicity in human renal carcinoma cells via the activation of JNK signalling

463–470

Y. Takano, H. Iwata, Y. Yano, M. Miyazawa, N. Virgona, H. Sato, K. Ueno, T. Yano



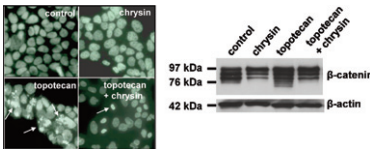
GASTROINTESTINAL PHARMACOLOGY

Chrysin blocks topotecan-induced apoptosis in Caco-2 cells in spite of inhibition of ABC-transporters

471–479

Marco Schumacher, Anja Hautzinger, Annette Rossmann, Susanne Holzhauser, Daniela Popovic, Anke Hertrampf, Sabine Kuntz, Michael Boll, Uwe Wenzel

Chrysin potently inhibits topotecan-triggered apoptosis in Caco-2 cells in spite of inhibition of ATP-dependent efflux transporters and concomitantly increased intracellular drug accumulation by inhibition of caspases and stabilization of β -catenin.



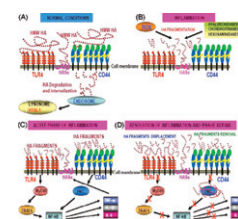
INFLAMMATION AND IMMUNOPHARMACOLOGY

Small hyaluronan oligosaccharides induce inflammation by engaging both toll-like-4 and CD44 receptors in human chondrocytes

480–490

Giuseppe M. Campo, Angela Avenoso, Salvatore Campo, Angela D'Ascola, Giancarlo Nastasi, Alberto Calatroni

Small hyaluronan (HA) oligosaccharides primed inflammation in normal human chondrocytes by stimulating both toll-like receptor 4 (TLR-4) and cluster determinant 44 (CD44) receptors. Blocking antibodies of these two receptors reduced nuclear factor kappaB (NF- κ B) activation and inflammatory mediators.

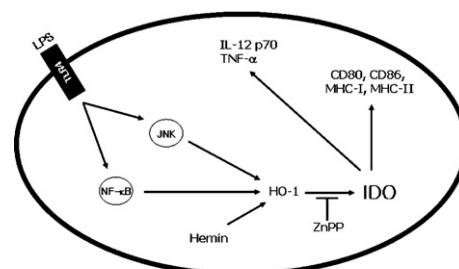


Induction of indoleamine 2,3-dioxygenase expression via heme oxygenase-1-dependant pathway during murine dendritic cell maturation

491–505

In Duk Jung, Jun Sik Lee, Chang-Min Lee, Kyung Tae Noh, Yeong-II Jeong, Won Sun Park, Sung Hak Chun, Soo Kyung Jeong, Jin Wook Park, Kwang Hee Son, Deok Rim Heo, Min-Goo Lee, Yong Kyoo Shin, Han Wool Kim, Cheol-Heui Yun, Yeong-Min Park

HO-1-mediated IDO expression is dependent on the NF- κ B pathway and constitutes an intermediate step in the DC maturation pathway.



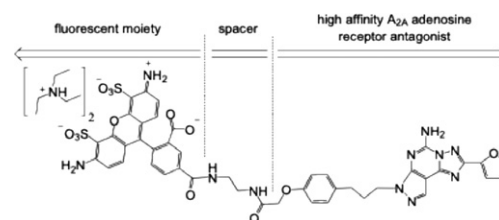
HO-1-mediated IDO expression is dependent on the NF- κ B pathway and constitutes an intermediate step in the DC maturation pathway

NEUROPHARMACOLOGY

Novel Alexa Fluor-488 labeled antagonist of the A_{2A} adenosine receptor: Application to a fluorescence polarization-based receptor binding assay

506–511

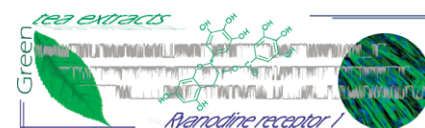
Miklós Kecskés, T. Santhosh Kumar, Lena Yoo, Zhan-Guo Gao, Kenneth A. Jacobson



Green tea catechins are potent sensitizers of ryanodine receptor type 1 (RyR1)

512–521

Wei Feng, Gennady Cherednichenko, Chris W. Ward, Isela T. Padilla, Elaine Cabrales, José R. Lopez, José M. Eltit, Paul D. Allen, Isaac N. Pessah

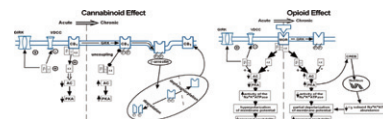


Characteristics of tolerance in the guinea pig ileum produced by chronic *in vivo* exposure to opioid versus cannabinoid agonists

522–532

Hercules Maguma, Kathleen Thayne, David A. Taylor

Chronic opioid treatment induces heterologous tolerance by changing cell excitability while chronic cannabinoid treatment induces homologous tolerance by modifying the receptor population.

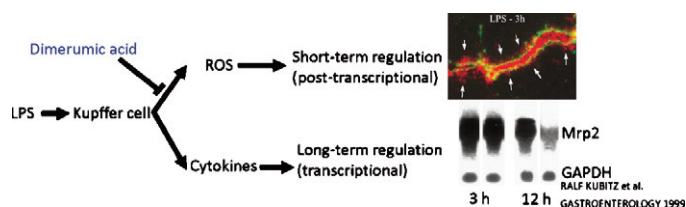


PULMONARY, RENAL AND HEPATIC PHARMACOLOGY

The effect of dimeric acid on LPS-induced downregulation of Mrp2 in the rat

533–539

Kentarō Yano, Shuichi Sekine, Kanako Nemoto, Toru Fuwa, Toshiharu Horie



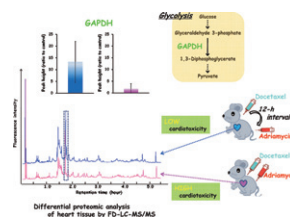
TOXICOLOGY

A toxicoproteomic study on cardioprotective effects of pre-administration of docetaxel in a mouse model of adriamycin-induced cardiotoxicity

540–547

Kaname Ohyama^a, Mari Tomonari, Tomoko Ichibangase, Hideto To, Naoya Kishikawa, Kenichiro Nakashima, Kazuhiro Imai, Naotaka Kuroda

Differential proteomic analysis of heart tissue by FD-LC-MS/MS.



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