



Biochemical Pharmacology, Volume 79, issue 8, 15 April 2010

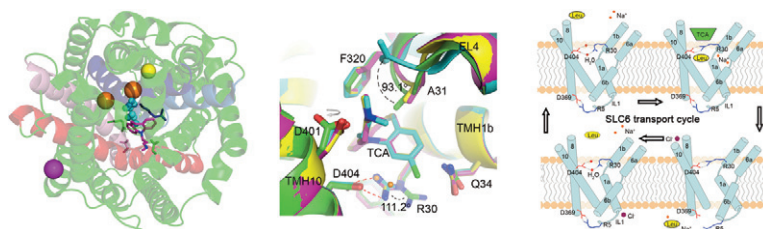
Contents

COMMENTARY

Emerging structure–function relationships defining monoamine NSS transporter substrate and ligand affinity

1083–1091

Ching-I Anderson Wang, Richard J. Lewis



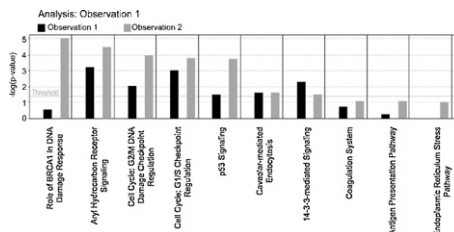
ANTIBIOTICS AND CHEMOTHERAPEUTICS

Inhibition of epidermal growth factor receptor over-expressing cancer cells by the aorphine-type isoquinoline alkaloid, dicentrine

1092–1099

V. Badireenath Konkimalla, Thomas Efferth

Dicentrine exerts preferential cytotoxicity towards EGFR-transfectant U87MG cells. As determined by microarray hybridisations, this was accompanied by activation of BRCA1, p53, AhR signalling and G1/S and G2/M cell cycle regulation.

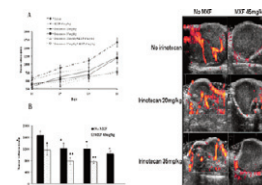


Moxifloxacin increases anti-tumor and anti-angiogenic activity of irinotecan in human xenograft tumors

1100–1107

Debby Reuveni, Drora Halperin, Ina Fabian, Galia Tsarfaty, Nadir Askenasy, Itamar Shalit

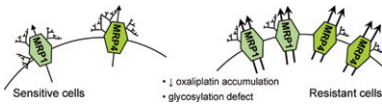
Treatment of SCID mice implanted with HT-29 cells with moxifloxacin/irinotecan is more effective than each drug alone (left, A and B), and induces a decrease in tumors blood flow (right).



Increased levels and defective glycosylation of MRPs in ovarian carcinoma cells resistant to oxaliplatin

1108–1117

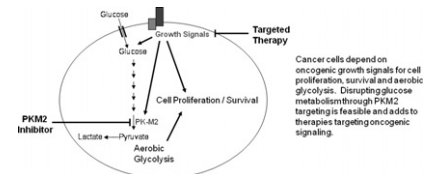
Giovanni Luca Beretta, Valentina Benedetti, Giacomo Cossa, Yehuda G.A. Assaraf, Eran Bram, Laura Gatti, Elisabetta Corna, Nives Carenini, Donato Colangelo, Stephen B. Howell, Franco Zunino, Paola Perego



Identification of small molecule inhibitors of pyruvate kinase M2

1118–1124

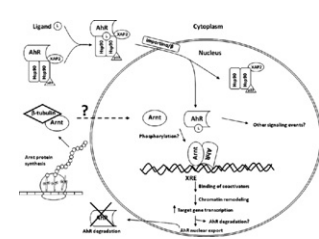
Matthew G. Vander Heiden, Heather R. Christofk, Eli Schuman, Alexander O. Subtelny, Hadar Sharfi, Edward E. Harlow, Jun Xian, Lewis C. Cantley



Beta tubulin affects the aryl hydrocarbon receptor function via an Arnt-mediated mechanism

1125–1133

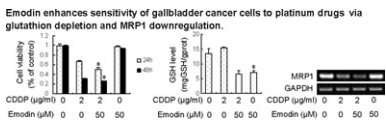
Tianmin Zhang, Xiaodong Wang, Annie Shinn, Jingjun Jin, William K. Chan



Emodin enhances sensitivity of gallbladder cancer cells to platinum drugs via glutathione depletion and MRP1 downregulation

1134–1140

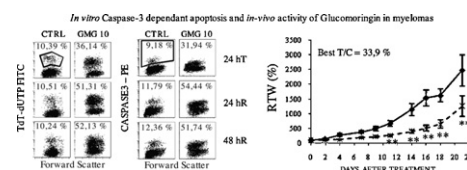
Wei Wang, Yue-ping Sun, Xin-zhi Huang, Min He, Yu-ying Chen, Gui-ying Shi, Hui Li, Jing Yi, Jian Wang



The isothiocyanate produced from glucomoringin inhibits NF- κ B and reduces myeloma growth in nude mice *in vivo*

1141–1148

Dario Brunelli, Michele Tavecchio, Cristiano Falcioni, Roberta Frapolli, Eugenio Erba, Renato Iori, Patrick Rollin, Jessica Barillari, Carla Manzotti, Paolo Morazzoni, Maurizio D'Incalci



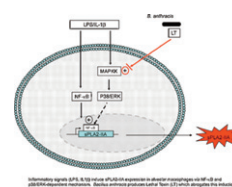
INFLAMMATION AND IMMUNOPHARMACOLOGY

Anthrax lethal toxin down-regulates type-IIA secreted phospholipase A₂ expression through MAPK/NF- κ B inactivation

1149–1155

Benoit Raymond, Lucas Ravau, Sylvie Mémet, YongZheng Wu, Aude Sturny-Leclère, Dominique Leduc, Chantal Denoyelle, Pierre L. Goossens, Miguel Payá, Michel Raymondjean, Lhousseine Touqui

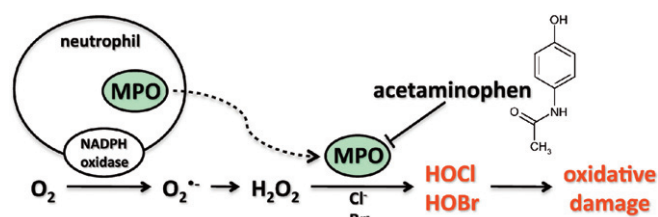
Inflammatory signals (LPS, IL-1 β) induce sPLA₂-IIA expression in alveolar macrophages *via* NF- κ B and p38/ERK-dependent mechanism. *Bacillus anthracis* produces lethal toxin (LT) which abrogates this induction by cleaving MAPKK.



Acetaminophen (paracetamol) inhibits myeloperoxidase-catalyzed oxidant production and biological damage at therapeutically achievable concentrations

1156–1164

Maud Koelsch, Roger Mallak, Garry G. Graham, Tracey Kajer, Marian K. Milligan, Ly Q. Nguyen, Dawn W. Newsham, Jeremy S. Keh, Anthony J. Kettle, Kieran F. Scott, John B. Ziegler, David I. Pattison, Shanlin Fu, Clare L. Hawkins, Martin D. Rees, Michael J. Davies

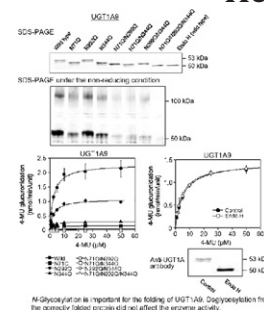


PHARMACOKINETICS AND DRUG METABOLISM

N-Glycosylation plays a role in protein folding of human UGT1A9

1165–1172

Miki Nakajima, Toshihisa Koga, Haruko Sakai, Hiroyuki Yamanaka, Ryoichi Fujiwara, Tsuyoshi Yokoi



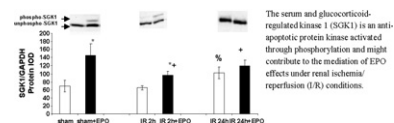
PULMONARY, RENAL AND HEPATIC PHARMACOLOGY

Role of serum and glucocorticoid-regulated kinase-1 in the protective effects of erythropoietin during renal ischemia/reperfusion injury

1173–1181

Krisztina Rusai, Ágnes Prókai, Beáta Szebeni, Andrea Fekete, András Treszl, Ádám Vannay, Veronika Müller, György Reusz, Uwe Heemann, Jens Lutz, Tivadar Tulassay, Attila J. Szabó

The serum and glucocorticoid-regulated kinase 1 (SGK1) is an anti-apoptotic protein kinase activated through phosphorylation and might contribute to the mediation of EPO effects under renal ischemia/reperfusion (I/R) conditions.

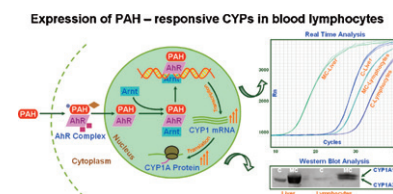


TOXICOLOGY

Polycyclic aromatic hydrocarbon metabolizing cytochrome P450s in freshly prepared uncultured rat blood lymphocytes

1182–1188

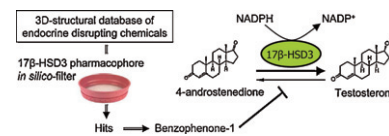
Kumar Saurabh, Amit Sharma, Sanjay Yadav, Devendra Parmar



The UV-filter benzophenone-1 inhibits 17 β -hydroxysteroid dehydrogenase type 3: Virtual screening as a strategy to identify potential endocrine disrupting chemicals

1189–1199

Lyubomir G. Nashev, Daniela Schuster, Christian Laggner, Seloni Sodha, Thierry Langer, Gerhard Wolber, Alex Odermatt

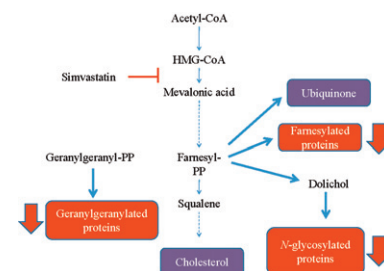


Effect of simvastatin on cholesterol metabolism in C2C12 myotubes and HepG2 cells, and consequences for statin-induced myopathy

1200–1209

Peter James Mullen, Barbara Lüscher, Hubert Scharnagl, Stephan Krähenbühl, Karin Brecht

Simvastatin reduces protein prenylation and N-linked glycosylation in C2C12 myotubes, whereas the total cholesterol and ubiquinone levels are not altered.



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