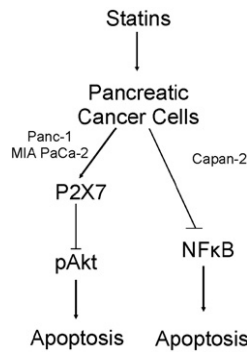


Statins inhibit Akt/PKB signaling via P2X7 receptor in pancreatic cancer cells

1115–1126

Oras Mistafa, Ulla Stenius

Summary of statin-induced effects in pancreatic cancer cell lines.

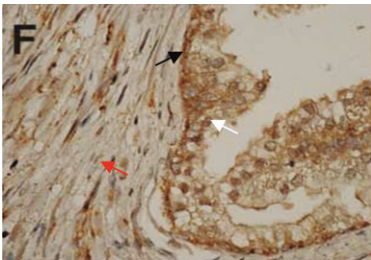


Retinoid metabolism and ALDH1A2 (RALDH2) expression are altered in the transgenic adenocarcinoma mouse prostate model

1127–1138

Sue Ellen Touma, Sven Perner, Mark A. Rubin, David M. Nanus, Lorraine J. Gudas

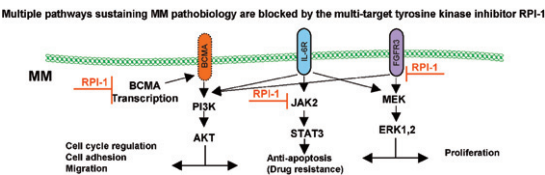
Through immunocytochemistry and Western analysis, we demonstrate that ALDH1A2 (RALDH2), which produces retinoic acid, exhibits reduced expression in human prostate cancer specimens and in the TRAMP mouse model of prostate cancer.



Concomitant downregulation of proliferation/survival pathways dependent on FGF-R3, JAK2 and BCMA in human multiple myeloma cells by multi-kinase targeting

1139–1147

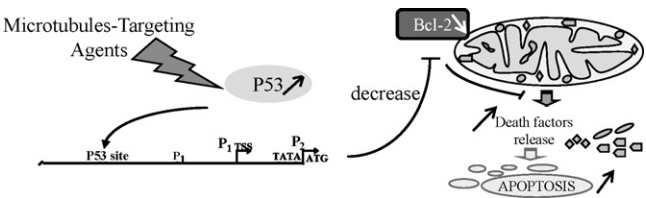
Giuliana Cassinelli, Domenica Ronchetti, Diletta Laccabue, Michela Mattioli, Giuditta Cuccuru, Enrica Favini, Valentina Nicolini, Angela Greco, Antonino Neri, Franco Zunino, Cinzia Lanzi



Transcriptional down-regulation of Bcl-2 by vinorelbine: Identification of a novel binding site of p53 on Bcl-2 promoter

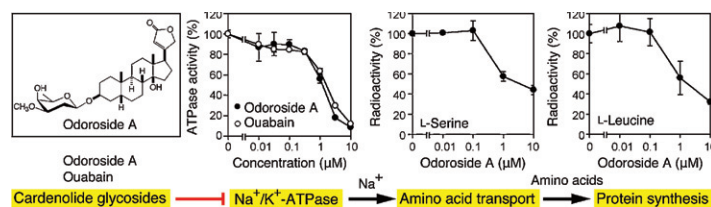
1148–1156

Véronique Bourgarel-Rey, Amandine Savry, Guoqiang Hua, Manon Carré, Céline Bressin, Christine Chacon, Jean Imbert, Diane Braguer, Yves Barra



Odoroside A and ouabain inhibit Na^+/K^+ -ATPase and prevent NF- κ B-inducible protein expression by blocking Na^+ -dependent amino acid transport 1157–1166

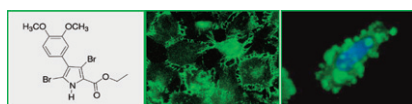
Yohei Takada, Kentaro Matsuo, Hirotsugu Ogura, Liming Bai, Asami Toki, Liyan Wang, Masayoshi Ando, Takao Kataoka



Interference with endothelial cell function by JG-03-14, an agent that binds to the colchicine site on microtubules 1167–1177

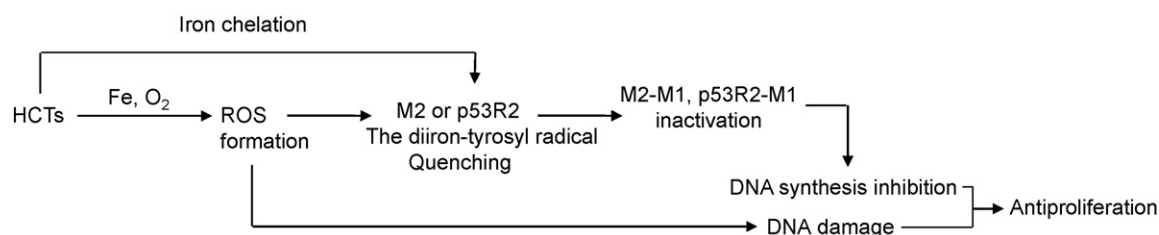
Nava Dalyot-Herman, Fernando Delgado-Lopez, David A. Gewirtz, John T. Gupton, Edward L. Schwartz

The microtubule-binding agent JG-03-14 (left) disrupted the structure of adherens junctions (middle) and caused membrane blebbing (right) in endothelial cells, suggesting it may have anti-angiogenic and vascular-disrupting actions.



Inhibitory mechanisms of heterocyclic carboxaldehyde thiosemicabazones for two forms of human ribonucleotide reductase 1178–1185

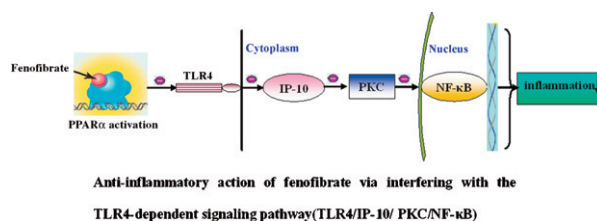
Lijun Zhu, Bingsen Zhou, Xinhuan Chen, Hongjuan Jiang, Jimin Shao, Yun Yen



CARDIOVASCULAR PHARMACOLOGY

PPAR α activator fenofibrate modulates angiotensin II-induced inflammatory responses in vascular smooth muscle cells via the TLR4-dependent signaling pathway 1186–1197

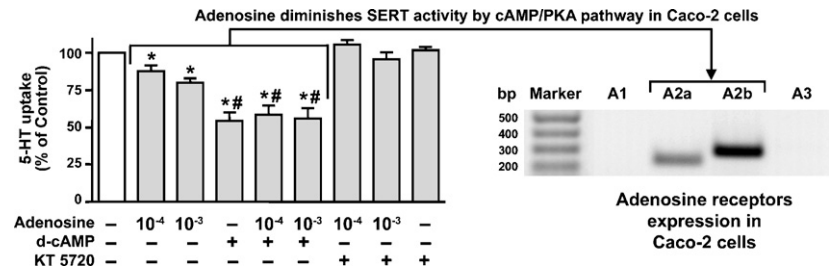
Yuan-Yuan Ji, Jun-Tian Liu, Na Liu, Zhi-Dong Wang, Chuan-Hao Liu



GASTROINTESTINAL PHARMACOLOGY

Regulation of serotonin transporter activity by adenosine in intestinal epithelial cells 1198–1204

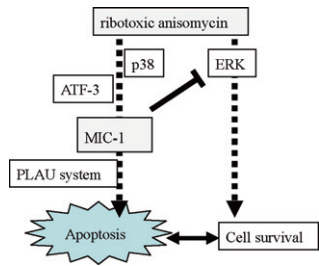
N. Matheus, C. Mendoza, R. Iceta, J.E. Mesonero, A.I. Alcalde



Macrophage inhibitory cytokine-1 (MIC-1) and subsequent urokinase-type plasminogen activator mediate cell death responses by ribotoxic anisomycin in HCT-116 colon cancer cells 1205–1213

Hyun Yang, Hye Jin Choi, Seong Hwan Park, Jong Sik Kim, Yuseok Moon

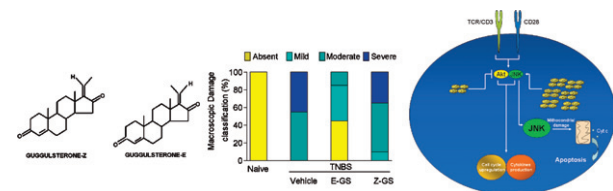
The schematic signaling patterns illustrate that chemical ribotoxic stress-induced MIC-1 protein and PLAU system are modulated in the colon cancer cells.



The plant sterol guggulsterone attenuates inflammation and immune dysfunction in murine models of inflammatory bowel disease 1214–1223

Andrea Mencarelli, Barbara Renga, Giuseppe Palladino, Eleonora Distrutti, Stefano Fiorucci

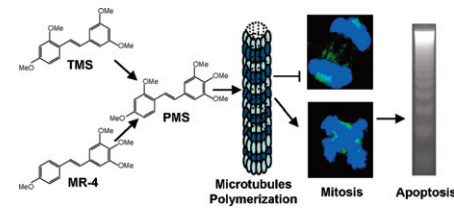
Guggulsterone is a plant sterol that exerts immunomodulatory activities in rodent models of T-cell-induced colitis. Guggulsterone directly modulates intracellular pathways in intestinal CD4+ cells.



2,3',4,4',5'-Pentamethoxy-*trans*-stilbene, a resveratrol derivative, is a potent inducer of apoptosis in colon cancer cells via targeting microtubules 1224–1232

Haitao Li, William Ka Kei Wu, Zongping Zheng, Chun Tao Che, Le Yu, Zhi Jie Li, Ya Chun Wu, Ka-Wing Cheng, Jun Yu, Chi Hin Cho, Mingfu Wang

2,3',4,4',5'-Pentamethoxy-*trans*-stilbene, the hybrid molecule of TMS and MR-4, induced colon cancer cells apoptosis via targeting microtubules.

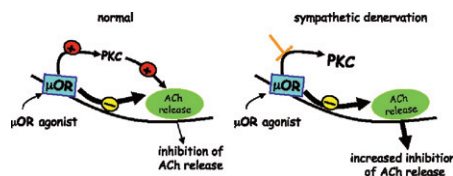


Involvement of Ca^{2+} -dependent PKCs in the adaptive changes of μ -opioid pathways to sympathetic denervation in the guinea pig colon

1233–1241

C. Giaroni, E. Zanetti, A. Pascale, R. Oldrini, L. Canciani, D. Giuliani, M. Amadio, A.M. Chiaravalli, S. Lecchini, G.M. Frigo

μ -Opioid receptors uncoupling to PKC in the guinea pig colon myenteric plexus underlays development of supersensitivity to the inhibitory effect of μ -opioid agonists on acetylcholine release after chronic sympathetic denervation.

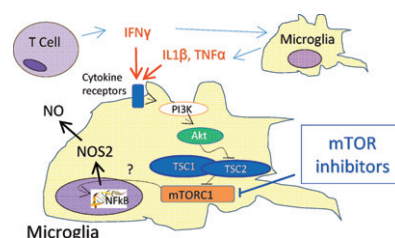


INFLAMMATION AND IMMUNOPHARMACOLOGY

Involvement of mTOR kinase in cytokine-dependent microglial activation and cell proliferation

1242–1251

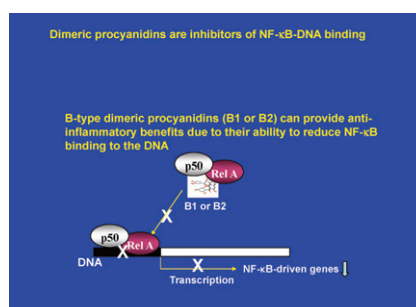
Cinzia Dello Russo, Lucia Lisi, Giuseppe Tringali, Pierluigi Navarra



Dimeric procyanidins are inhibitors of NF- κ B–DNA binding

1252–1262

Gerardo G. Mackenzie, Jose M. Delfino, Carl L. Keen, Cesar G. Fraga, Patricia I. Oteiza



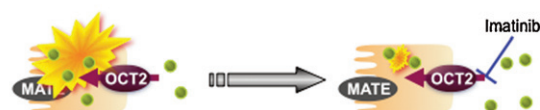
PHARMACOKINETICS AND DRUG METABOLISM

Protective effect of concomitant administration of imatinib on cisplatin-induced nephrotoxicity focusing on renal organic cation transporter OCT2

1263–1271

Yuko Tanihara, Satohiro Masuda, Toshiya Katsura, Ken-ichi Inui

Coadministration of imatinib reduced the OCT2-mediated renal accumulation and subsequent nephrotoxicity of cisplatin.

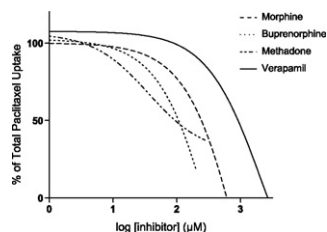


Opiates inhibit paclitaxel uptake by P-glycoprotein in preparations of human placental inside-out vesicles

1272–1278

Sarah J. Hemauer, Svetlana L. Patrikeeva, Tatiana N. Nanovskaya, Gary D.V. Hankins, Mahmoud S. Ahmed

Brush border membrane vesicles prepared from human placenta were used to determine the effects of methadone, buprenorphine, and morphine on paclitaxel transfer by placental P-glycoprotein.



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