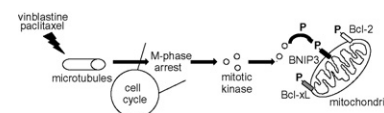


Synchronised phosphorylation of BNIP3, Bcl-2 and Bcl-xL in response to microtubule-active drugs is JNK-independent and requires a mitotic kinase

1562–1572

Howard R. Mellor, Kasper M. Rouschop, Simon M. Wigfield, Bradly G. Wouters, Adrian L. Harris

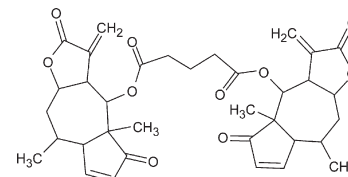


Inhibition of inducible nitric oxide synthase by bis(helenaliny)glutarate in RAW264.7 macrophages

1573–1580

V. Badireenath Konkimalla, Martina Blunder, Rudolf Bauer, Thomas Efferth

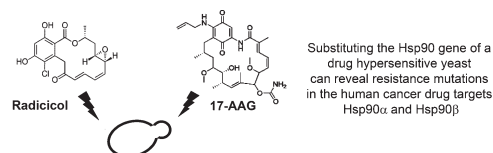
Screening a phytochemical library for novel nitric oxide (NO) inhibitors, we identified bis(helaliny)glutarate (BHG) as candidate compound. Indeed, BHG inhibited NO production and expression of inducible NO synthase. The glucocorticoid receptor and interleukin-1 and interleukin-10 signaling pathways were found as possible modes of action of BHG by means of mRNA microarray hybridization.



A simple yeast-based system for analyzing inhibitor resistance in the human cancer drug targets Hsp90 α/β

1581–1588

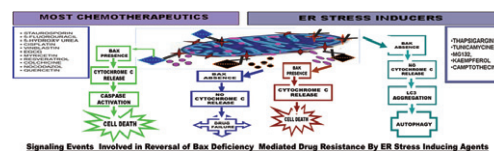
Stefan H. Millson, Chrisostomos Prodromou, Peter W. Piper



Bax deficiency mediated drug resistance can be reversed by endoplasmic reticulum stress induced death signaling

1589–1599

Bhavya Balan Chandrika, Sathish Kumar Maney, Swathi U. Lekshmi, Jeena Joseph, Mahendra Seervi, Praveen K.S., Santhoshkumar T.R.



Flavonoids inhibit hypoxia-induced vascular endothelial growth factor expression by a HIF-1 independent mechanism

1600–1609

Elena Ansó, Alicia Zuazo, Marta Irigoyen, María C. Urdaci, Ana Rouzaut, Juan J. Martínez-Irujo

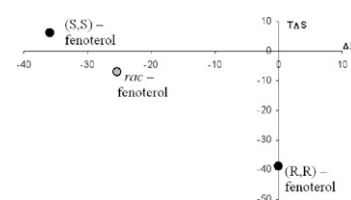


CARDIOVASCULAR PHARMACOLOGY

The effect of stereochemistry on the thermodynamic characteristics of the binding of fenoterol stereoisomers to the β_2 -adrenoceptor

1610–1615

Krzysztof Jozwiak, Lawrence Toll, Lucita Jimenez, Anthony Yiu-Ho Woo, Rui-Ping Xiao, Irving W. Wainer

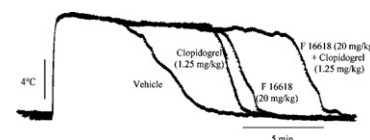


Antithrombotic activity of F 16618, a new PAR1 antagonist evaluated in extracorporeal arterio-venous shunt in the rat

1616–1621

Robert Létienne, Anne Leparq-Panissié, Yannick Calmettes, Florence Nadal-Wollbold, Michel Perez, Bruno Le Grand

A new PAR1 antagonist, F 16618 exerted a potent antithrombotic activity by intravenous and oral routes, without affecting bleeding time, this activity was potentiated when combined with aspirin or clopidogrel.

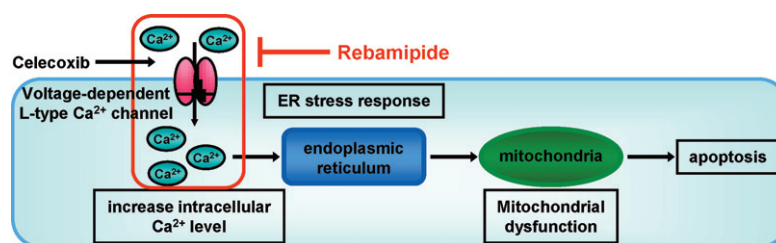


GASTROINTESTINAL PHARMACOLOGY

Protective effect of rebamipide against celecoxib-induced gastric mucosal cell apoptosis

1622–1633

Tomoaki Ishihara, Ken-Ichiro Tanaka, Saki Tashiro, Kosuke Yoshida, Tohru Mizushima



Role of modulation of vascular endothelial growth factor and tumor necrosis factor-alpha in gastric ulcer healing in diabetic rats

1634–1639

Azza M. Baraka, Aida Guemei, Hala Abdel Gawad

Given the reported role of angiogenesis and some proinflammatory cytokines in gastric ulcer healing, The aim of the present study was to assess the effect of drugs that increase gastric vascular endothelial growth factor (VEGF) and suppress gastric tumor necrosis factor-alpha (TNF- α) in gastric ulcer healing in streptozotocin - induced diabetic rats. Gastric ulcer was induced in diabetic rats by acetic acid application. Drugs used were insulin; pentoxifylline and simvastatin which resulted in a significant decrease in gastric ulcer area, significant increase in gastric VEGF concentration, and gastric von Willebrand factor as well as significant decrease in gastric TNF- α . Our results suggest the feasibility of a novel treatment strategy, for patients in whom impairment of ulcer healing constitutes a secondary complication of diabetes mellitus.

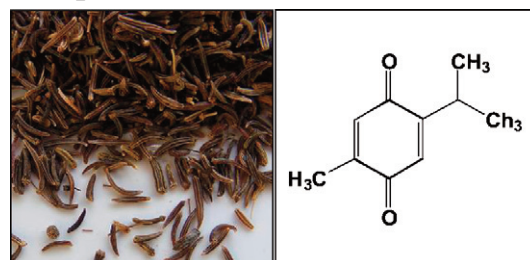
INFLAMMATION AND IMMUNOPHARMACOLOGY

Thymoquinone poly (lactide-co-glycolide) nanoparticles exhibit enhanced anti-proliferative, anti-inflammatory, and chemosensitization potential

1640–1647

Jayaraj Ravindran, Hareesh B. Nair, Bokyoung Sung, Sahdeo Prasad, Rajeshwar R. Tekmal, Bharat B. Aggarwal

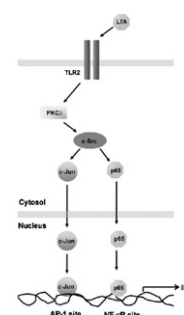
Our results demonstrate that encapsulation of thymoquinone, TQ, derived from the medicinal spice *Nigella sativa* (also called black cumin), into nanoparticles enhances its anti-proliferative, anti-inflammatory, and chemosensitizing effects.



Lipoteichoic acid enhances IL-6 production in human synovial fibroblasts via TLR2 receptor, PKC δ and c-Src dependent pathways

1648–1657

Chih-Hsin Tang, Chin-Jung Hsu, Wei-Hung Yang, Yi-Chin Fong

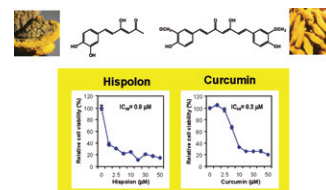


Bisdemethylcurcumin and structurally related hispolon analogues of curcumin exhibit enhanced prooxidant, anti-proliferative and anti-inflammatory activities *in vitro*

1658–1666

Jayaraj Ravindran, Gottumukkala V. Subbaraju, Modukuri V. Ramani, Bokyoung Sung, Bharat B. Aggarwal

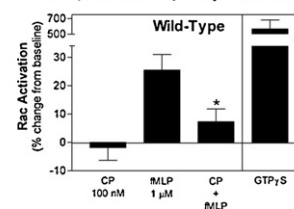
While turmeric (*Curcuma longa*) is the source of curcumin, the mushroom *Phellinus linteus* called “meshimakobu” in Japanese, “song gen” in Chinese, and “Sang-Hwang” in Korean is the best source of hispolon.



Activation of the A₃ adenosine receptor inhibits fMLP-induced Rac activation in mouse bone marrow neutrophils

1667–1673

Dharini van der Hoeven, Elizabeth T. Gizewski, John A. Auchampach

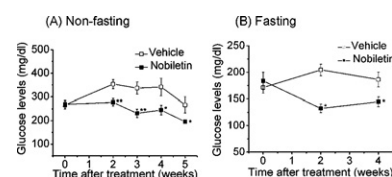
Inhibition of Rac activation: a potential mechanism for inhibition of neutrophil activation by the A₃ adenosine receptor

METABOLIC DISORDERS AND ENDOCRINOLOGY

Nobiletin improves hyperglycemia and insulin resistance in obese diabetic *ob/ob* mice

1674–1683

Young-Sil Lee, Byung-Yoon Cha, Kiyoto Saito, Hiroshi Yamakawa, Sun-Sil Choi, Kohji Yamaguchi, Takayuki Yonezawa, Toshiaki Teruya, Kazuo Nagai, Je-Tae Woo



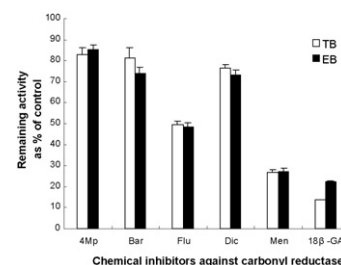
PHARMACOKINETICS AND DRUG METABOLISM

Bupropion metabolism by human placenta

1684–1690

Xiaoming Wang, Doaa R. Abdelrahman, Olga L. Zharikova, Svetlana L. Patrikeeva, Gary D.V. Hankins, Mahmoud S. Ahmed, Tatiana N. Nanovskaya

Human placental 11β-hydroxysteroid dehydrogenases were identified as the major carbonyl-reducing enzymes responsible for reduction of bupropion to threo- and erythrohydrobupropion in microsomal fractions.

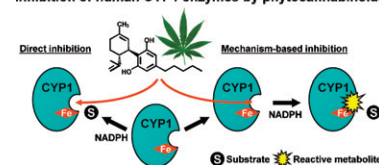


Characterization of major phytocannabinoids, cannabidiol and cannabinol, as isoform-selective and potent inhibitors of human CYP1 enzymes

1691–1698

Satoshi Yamaori, Mika Kushiara, Ikuo Yamamoto, Kazuhito Watanabe

Inhibition of human CYP1 enzymes by phytocannabinoids



INDEXED/ABSTRACTED IN: Curr. Cont. ASCA, Biosis Data, CAB Inter., Chemical Abstracts Service, Curr. Cont./Life Sci., CABS, EMBASE/Excerpt. Med., Curr. Cont. ISI/BIOMED Database, MEDLINE, PASCAL-CNRS Data, Curr. Cont. Sci. Cit. Ind., Curr. Cont. SCISEARCH Data, Ind. Med., Reference Update. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®.



ELSEVIER

Available online at www.sciencedirect.com
www.elsevier.com/locate/biochempharm