



Biochemical Pharmacology, Volume 78, issue 8, 15 October 2009

Contents

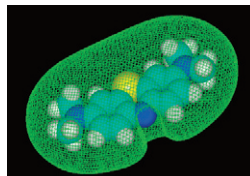
COMMENTARY

Methylene blue and Alzheimer's disease

p 927–932

Murat Oz, Dietrich E. Lorke, George A. Petroianu

The relationship between methylene blue (MB) and Alzheimer's disease has recently attracted increasing attention since MB has been suggested to slow down the progression of this disease.

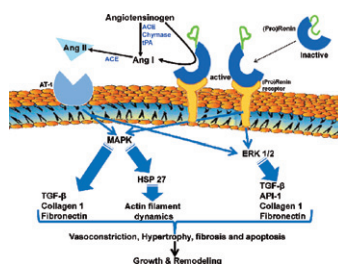


The biochemical pharmacology of renin inhibitors: Implications for translational medicine in hypertension, diabetic nephropathy and heart failure: Expectations and reality

p 933–940

Zaid Abassi, Joseph Winaver, Giora Z. Feuerstein

Renin, the rate-limiting enzyme in activation of the RAAS, has turned out to also be a ligand to a protein termed the renin/prorenin receptor, which binds renin and prorenin.



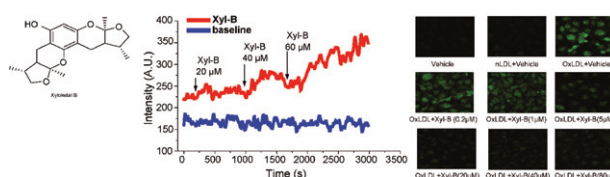
CARDIOVASCULAR PHARMACOLOGY

A novel marine compound xyloketal B protects against oxidized LDL-induced cell injury in vitro

p 941–950

Wen-Liang Chen, Yan Qian, Wei-Feng Meng, Ji-Yan Pang, Yong-Cheng Lin, Yong-Yuan Guan, Sheng-Pin Chen, Jie Liu, Zhong Pei, Guan-Lei Wang

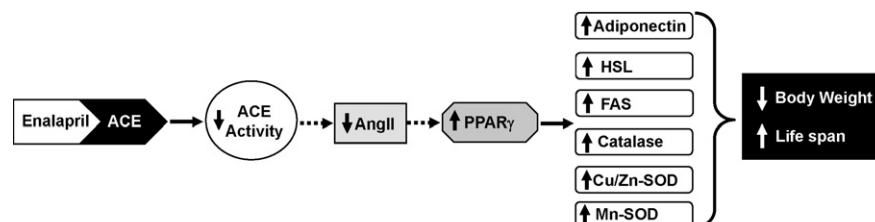
A novel marine compound xyloketal B protects against oxidized LDL-induced endothelial cell injury through attenuating ROS generation and promoting NO release.



Long term treatment with ACE inhibitor enalapril decreases body weight gain and increases life span in rats p 951–958

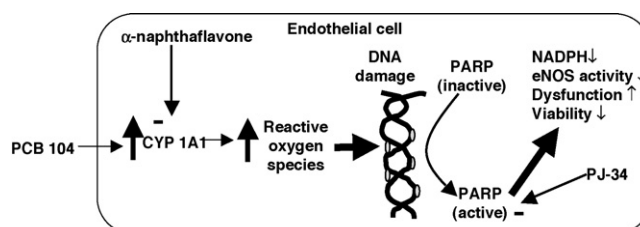
Edson Lucas Santos, Kely de Picoli Souza, Elton Dias da Silva, Elice Carneiro Batista, Paulo J. Forcina Martins, Vânia D'Almeida, João Bosco Pesquero

ACE inhibitor enalapril decreases body weight gain and increases life span through activation of PPAR γ in the adipose tissue.



PCB-induced endothelial cell dysfunction: Role of poly(ADP-ribose) polymerase p 959–965

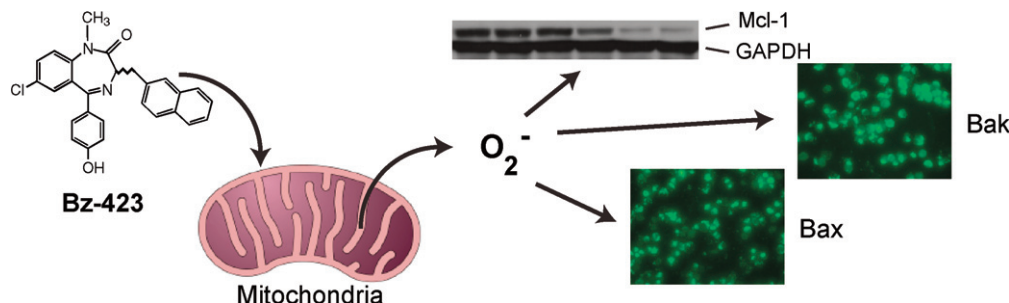
Simon G. Helyar, Bella Patel, Kevin Headington, Mary El Assal, Prabal K. Chatterjee, Pal Pacher, Jon G. Mabley



INFLAMMATION AND IMMUNOPHARMACOLOGY

Bz-423 superoxide signals B cell apoptosis via Mcl-1, Bak, and Bax p 966–973

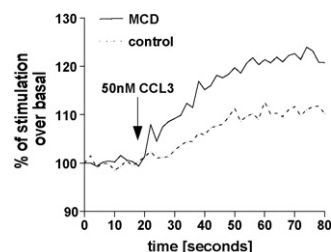
Neal B. Blatt, Anthony E. Boitano, Costas A. Lyssiotis, Anthony W. Pipari Jr., Gary D. Glick



Distinct modes of molecular regulation of CCL3 induced calcium flux in monocytic cells p 974–982

Clara Moyano Cardaba, Anja Mueller

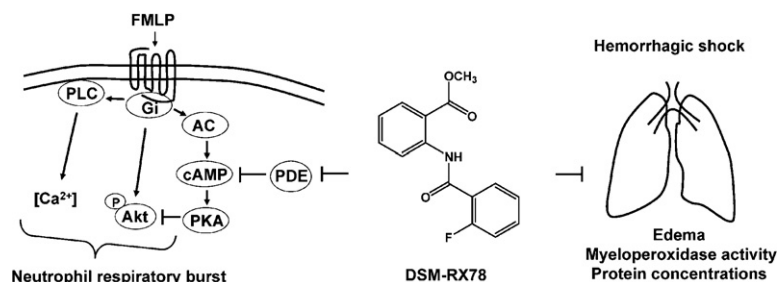
MCD treatment of monocytic THP-1 cells leads to an increase in the signalling properties of CCR5.



DSM-RX78, a new phosphodiesterase inhibitor, suppresses superoxide anion production in activated human neutrophils and attenuates hemorrhagic shock-induced lung injury in rats

p 983–992

Huang-Ping Yu, Pei-Wen Hsieh, Yi-Ju Chang, Pei-Jen Chung, Liang-Mou Kuo, Tsong-Long Hwang

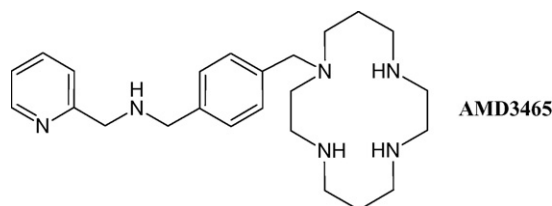


Pharmacology of AMD3465: A small molecule antagonist of the chemokine receptor CXCR4

p 993–1000

Veronique Bodart, Virginia Anastassov, Marilyn C. Darkes, Stefan R. Idzan, Jean Labrecque, Gloria Lau, Renee M. Mosi, Kathleen S. Neff, Kim L. Nelson, Melanie C. Ruzek, Ketan Patel, Zefferino Santucci, Robert Scarborough, Rebecca S.Y. Wong, Gary J. Bridger, Ron T. MacFarland, Simon P. Fricker

AMD3465 is a selective antagonist of the chemokine receptor CXCR4 which exhibits biphasic pharmacokinetics and causes rapid leukocytosis, a surrogate for hematopoietic stem cell mobilization, when administered subcutaneously.

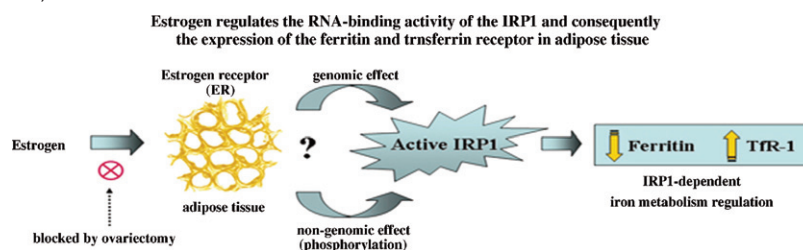


METABOLIC DISORDERS AND ENDOCRINOLOGY

Ovariectomy and estrogen treatment modulate iron metabolism in rat adipose tissue

p 1001–1007

Giuseppina Mattace Raso, Carlo Irace, Emanuela Esposito, Carmen Maffettone, Anna Iacono, Antonio Di Pascale, Rita Santamaria, Alfredo Colonna, Rosaria Meli

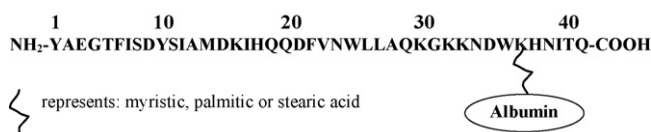


Fatty acid derivatised analogues of glucose-dependent insulintropic polypeptide with improved antihyperglycaemic and insulintropic properties

p 1008–1016

Barry D. Kerr, Nigel Irwin, Finbarr P.M. O'Harte, Clifford J. Bailey, Peter R. Flatt, Victor A. Gault

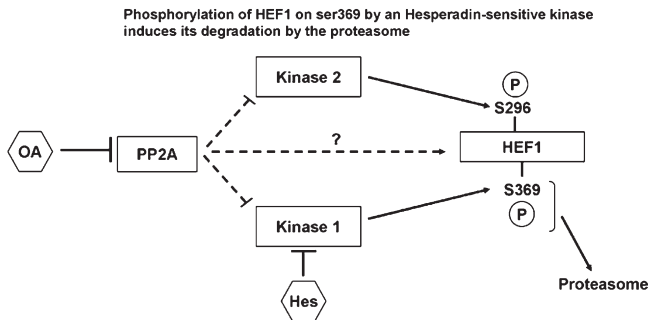
C-terminal acylation particularly with myristic acid provides a class of stable, longer-acting forms of GIP for evaluation in diabetes therapy



Phosphorylation of human enhancer of filamentation (HEF1) on serine 369 induces its proteasomal degradation

p 1017–1025

Virginie Hivert, Josiane Pierre, Joël Raingeaud

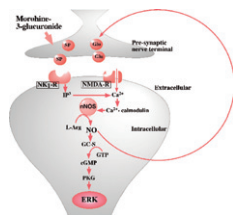


NEUROPHARMACOLOGY

Spinal ERK activation via NO–cGMP pathway contributes to nociceptive behavior induced by morphine-3-glucuronide

p 1026–1034

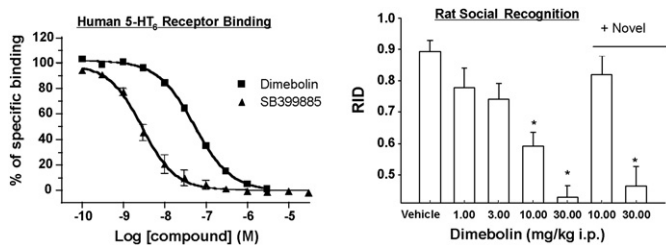
Takaaki Komatsu, Shinobu Sakurada, Kazuhiro Kohno, Hideo Shiohira, Sou Katsuyama, Chikai Sakurada, Minoru Tsuzuki, Tsukasa Sakurada



Dimebolin is a 5-HT6 antagonist with acute cognition enhancing activities

p 1035–1042

Hervé Schaffhauser, Joanne R. Mathiasen, Amy DiCamillo, Mark J. Huffman, Lily D. Lu, Beth A. McKenna, Jie Qian, Michael J. Marino

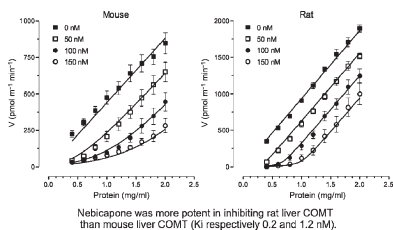


PHARMACOKINETICS AND DRUG METABOLISM

Species differences in pharmacokinetic and pharmacodynamic properties of nebicapone

p 1043–1051

Maria João Bonifácio, Ana I. Loureiro, Leonel Torrão, Carlos Fernandes-Lopes, Lyndon Wright, Maria João Pinho, Patrício Soares-da-Silva

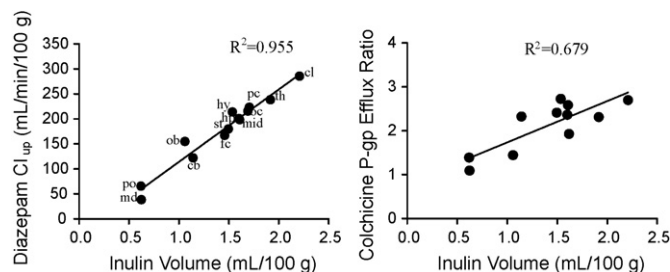


Regional differences in capillary density, perfusion rate, and P-glycoprotein activity: A quantitative analysis of regional drug exposure in the brain

p 1052–1059

Rong Zhao, Gary M. Pollack

The rate of regional perfusion flow (diazepam as marker), as well as P-gp-mediated colchicine efflux activity, was directly proportional to local capillary density (inulin as marker) in murine brain.

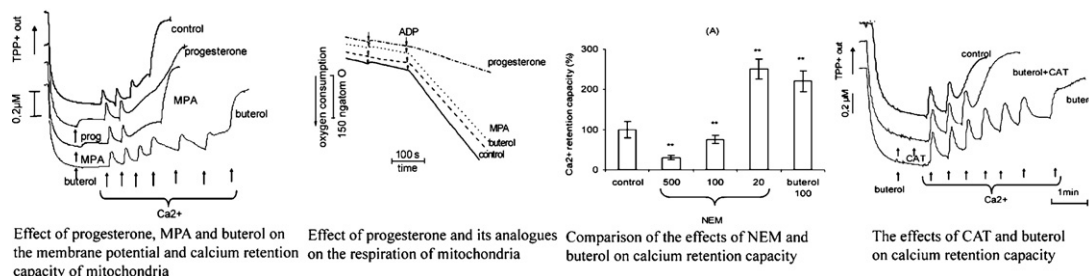


TOXICOLOGY

Effect of progesterone and its synthetic analogues on the activity of mitochondrial permeability transition pore in isolated rat liver mitochondria

p 1060–1068

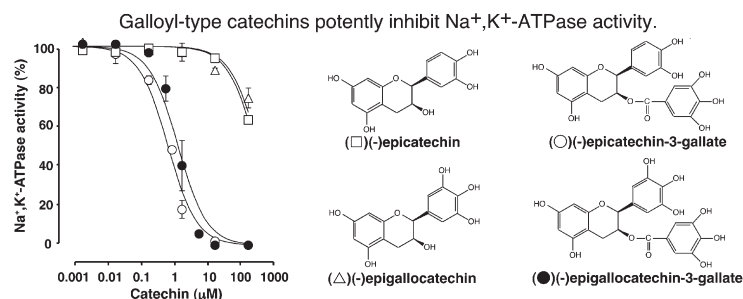
Nadezhda I. Fedotcheva, Vera V. Teplova, Tatiana A. Fedotcheva, Vladimir M. Rzhelnikov, Nikolai L. Shimanovskii



Epigallocatechin-3-gallate is an inhibitor of Na⁺,K⁺-ATPase by favoring the E₁ conformation

p 1069–1074

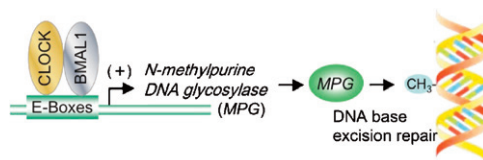
Hideo Ochiai, Kazuo Takeda, Shiori Soeda, Yoshikazu Tahara, Hitoshi Takenaka, Kazuhiro Abe, Yutaro Hayashi, Shunsuke Noguchi, Masumi Inoue, Silvia Schwarz, Wolfgang Schwarz, Masaru Kawamura



Clock gene mutation modulates the cellular sensitivity to genotoxic stress through altering the expression of N-methylpurine DNA glycosylase gene p 1075–1082

Jahye Kim, Naoya Matsunaga, Satoru Koyanagi, Shigehiro Ohdo

CLOCK protein acts as a positive regulator for transcription of N-methylpurine DNA glycosylase gene.



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