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Biochemical Pharmacology



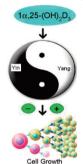


Biochemical Pharmacology, Volume 79, issue 1, 1 January 2010 Contents

COMMENTARY

The Yin and Yang of vitamin D receptor (VDR) signaling in neoplastic progression: Operational networks and tissue-specific growth control

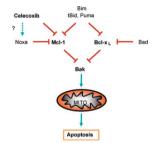
F.C. Campbell, Haibo Xu, M. El-Tanani, P. Crowe, V. Bingham



ANTIBIOTICS AND CHEMOTHERAPEUTICS

Differential effects of anti-apoptotic Bcl-2 family members Mcl-1, Bcl-2, and Bcl-xL on Celecoxib-induced apoptosis

Justine Rudner, Simon Johannes Elsaesser, Arndt-Christian Müller, Claus Belka[,], Verena Jendrossek[,]



21 - 29

Cytotoxic activity of gemcitabine in cultured cell lines derived from histologically different types of bladder cancer: Role of thymidine kinase 2

Swathi Damaraju, Vijaya L. Damaraju, Delores Mowles, Michael B. Sawyer, Sambasivarao Damaraju, Carol E. Cass

Transporters and Enzymes Involved in Gemcitabine Sensitivity of Bladder Cancer Cells: Role of Thymidine Kinase 2

HTB2 Papilloma
ENT1", dCK*, TK2
Gem IC₅₀ = 4 ± 2 nM
dThd pretreatment:
no effect

Transitional Carcinomal
ENT1*, dCK***, TK2*
Gem IC₅₀ = 20 ± 5 nM
dThd pretreatment:

HTB3 Squamous
cell carcinoma
ENT1*, dCK**, TK2**
Gem IC₅₀ = 210 ± 32 nM
dThd pretreatment:

↑ Gem sensitivity

1-9

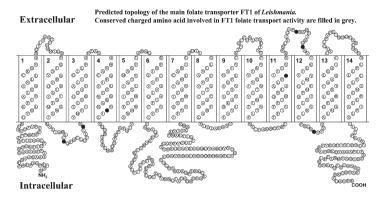
doi:10.1016/S0006-2952(09)00884-3

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Structure—function analysis of the highly conserved charged residues of the membrane protein FT1, the main folic acid transporter of the protozoan parasite *Leishmania*

30-38

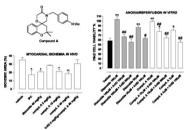
Larbi Dridi, Anass Haimeur, Marc Ouellette



CARDIOVASCULAR PHARMACOLOGY

Anti-ischemic properties of a new spiro-cyclic benzopyran activator of the cardiac mito-K_{ATP} 39–47 channel

Vincenzo Calderone, Lara Testai, Alma Martelli, Simona Rapposelli, Maria Digiacomo, Aldo Balsamo, ZMaria C. Breschi

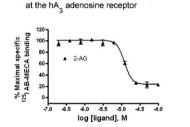


NEUROPHARMACOLOGY

The endocannabinoid 2-arachidonylglycerol is a negative allosteric modulator of the human ${\rm A}_3$ adenosine receptor

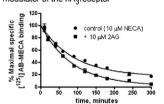
48-56

J. Robert Lane, Margot W. Beukers, Thea Mulder-Krieger, Ad P. IJzerman



(1) 2-arachidonlyglycerol inhibits agonist binding

(2) Kinetic binding studies and functional assays demonstrate that 2-AG is a negative allosteric modulator of the hA₃receptor

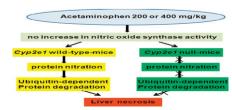


PHARMACOKINETICS AND DRUG METABOLISM

Role of cytochrome P450 2E1 in protein nitration and ubiquitin-mediated degradation 57–66 during acetaminophen toxicity

Mohamed A. Abdelmegeed, Kwan-Hoon Moon, Chi Chen, Frank J. Gonzalez, Byoung-Joon Song

CYP2E1 is important in protein nitration and ubiquitin-dependent degradation of nitrated proteins during acetaminophen-mediated hepatic necrotic damage



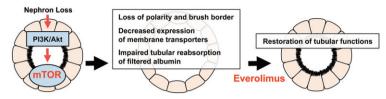
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PULMONARY, RENAL AND HEPATIC PHARMACOLOGY

mTOR inhibitor everolimus ameliorates progressive tubular dysfunction in chronic renal 67–76 failure rats

Shunsaku Nakagawa, Satohiro Masuda, Kumiko Nishihara, Ken-ichi Inui

The mTOR pathway was activated in the kidney of chronic renal failure rats, and has important roles in the progressive tubular dysfunction.



INDEXED/ABSTRACTED IN: Curr. Cont. ASCA, Biosis Data, CAB Inter., Chemical Abstracts Service, Curr. Cont./Life Sci., CABS, EMBASE/Excerp. 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®.



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