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Biochemical Pharmacology





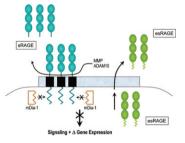
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COMMENTARY

Soluble RAGE: Therapy and biomarker in unraveling the RAGE axis in chronic disease and aging

1379-1386

Shi Fang Yan, Ravichandran Ramasamy, Ann Marie Schmidt

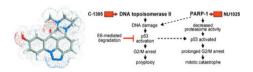


ANTIBIOTICS AND CHEMOTHERAPEUTICS

Increased cytotoxicity of an unusual DNA topoisomerase II inhibitor compound C-1305 toward HeLa cells with downregulated PARP-1 activity results from re-activation of the p53 pathway and modulation of mitotic checkpoints

1387-1397

Michal Sabisz, Józefa Węsierska-Gądek, Andrzej Skladanowski

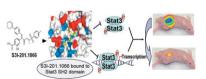


A novel small-molecule disrupts Stat3 SH2 domain-phosphotyrosine interactions and Stat3-dependent tumor processes

1398-1409

Xiaolei Zhang, Peibin Yue, Steven Fletcher, Wei Zhao, Patrick T. Gunning, James Turkson S3I-201.1066 binds to the Stat3 SH2 domain, disrupts aberrant Stat3 activation and Stat3 function, and induces antitumor effects *in vivo* in tumors harboring aberrant Stat3 activity.

A novel small-molecule disrupts Stat3 SH2 domainhosphoTyr interactions and Stat3-dependent tumor processes



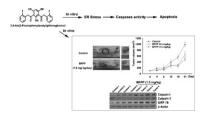
S3I-201.1066 binds to the Stat3 SH2 domain, disrupts aberrant Stat3 activation and Stat3 function, and induces antitumor effects *in vivo* in tumors harboring aberrant Stat3

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BFPP, a phloroglucinol derivative, induces cell apoptosis in human chondrosarcoma cells through endoplasmic reticulum stress

1410-1417

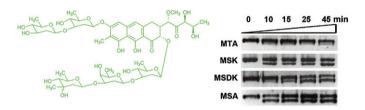
Ju-Fang Liu, Wei-Hung Yang, Yi-Chin Fong, Sheng-Chu Kuo, Chih-Shiang Chang, Chih-Hsin Tang



Differential inhibition of restriction enzyme cleavage by chromophore-modified analogues of the antitumour antibiotics mithramycin and chromomycin reveals structure—activity relationships

1418-1427

Sylvia Mansilla, Irene Garcia-Ferrer, Carmen Méndez, José A. Salas, José Portugal



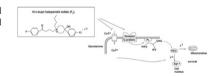
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N-n-Butyl haloperidol iodide protects against hypoxia/reoxygenation-induced cardiomyocyte injury by modulating protein kinase C activity

1428-1436

Jin-Zhi Wang, Cong-Yi Cai, Yan-Mei Zhang, Jin-Hong Zheng, Yi-Cun Chen, Wei-Qiu Li, Gang-Gang Shi

The myocardial protection of F_2 on H/R injury is mediated by inhibition of PKC α and activation of PKC ϵ in primary cultured cardiomyocytes. Inhibition of PKC α translocation was associated with downregulation of Egr-1 protein expression and attenuated cell damage, PKC ϵ activation is necessary for cardioprotection against cardiomyocyte apoptosis.

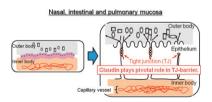


GASTROINTESTINAL PHARMACOLOGY

A claudin-4 modulator enhances the mucosal absorption of a biologically active peptide

1437-1444

Hiroshi Uchida, Masuo Kondoh, Takeshi Hanada, Azusa Takahashi, Takao Hamakubo, Kiyohito Yagi



Claudin-4 modulator, the C-terminal fragment of Clostridium perfringens enterotoxin, enhances nasal, intestinal and pulmonary absorption of a therapeutically relevant peptide.

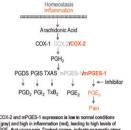
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Distinction of microsomal prostaglandin E synthase-1 (mPGES-1) inhibition from cyclooxygenase-2 inhibition in cells using a novel, selective mPGES-1 inhibitor

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Gabriel Mbalaviele, Adele M. Pauley, Alexander F. Shaffer, Ben S. Zweifel, Sumathy Mathialagan, Stephen J. Mnich, Olga V. Nemirovskiy, Jeff Carter, James K. Gierse, Jane L. Wang, Michael L. Vazquez, William M. Moore, Jaime L. Masferrer

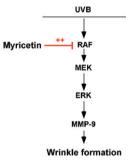


Myricetin suppresses UVB-induced wrinkle formation and MMP-9 expression by inhibiting Raf

1455-1461

Sung Keun Jung, Ki Won Lee, Ho Young Kim, Mi Hyun Oh, Sanguine Byun, Sung Hwan Lim, Yong-Seok Heo, Nam Joo Kang, Ann M. Bode, Zigang Dong, Hyong Joo Lee

Myricetin inhibited UVB-induced wrinkle formation and MMP-9 expression by directly inhibiting Raf kinase activity in mouse skin.

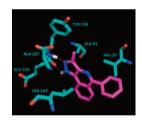


Pyrazolo[4,3-c]isoquinolines as potential inhibitors of NF-κB activation

1462-1472

Jérémie Mortier, Raphaël Frederick, Corinne Ganeff, Caroline Remouchamps, Patrice Talaga, Lionel Pochet, Johan Wouters, Jacques Piette, Emmanuel Dejardin, Bernard Masereel

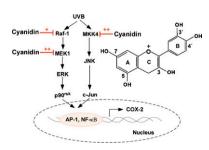
Docking of a new inhibitor of TAK1 (IC_{50} = 0.56 μM) and identification of potential interactions with the hinge region:



Cyanidin suppresses ultraviolet B-induced COX-2 expression in epidermal cells by targeting MKK4, MEK1, and Raf-1

1473-1482

Jong-Eun Kim, Jung Yeon Kwon[,] Sang Kwon Seo, Joe Eun Son, Sung Keun Jung[,] So Yun Min, Mun Kyung Hwang[,] Yong-Seok Heo, Ki Won Lee, Hyong Joo Lee

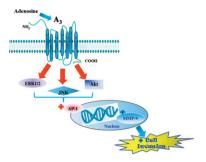


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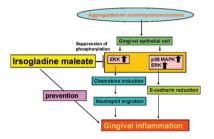
Stefania Gessi, Valeria Sacchetto, Eleonora Fogli, Stefania Merighi, Katia Varani, Pier Giovanni Baraldi, Mojgan Aghazadeh Tabrizi, Edward Leung, Stephen Maclennan, Pier Andrea Borea



Irsogladine maleate regulates neutrophil migration and E-cadherin expression in gingival epithelium stimulated by Aggregatibacter actinomycetemcomitans

1496-1505

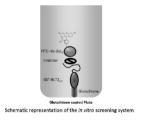
Tsuyoshi Fujita, Akiyoshi Kishimoto, Hideki Shiba, Kouichi Hayashida, Mikihito Kajiya, Yuushi Uchida, Shinji Matsuda, Katsuhiro Takeda, Kazuhisa Ouhara, Hiroyuki Kawaguchi, Yoshimitsu Abiko, Hidemi Kurihara



Blockade of $\text{LTB}_4\text{-induced}$ chemotaxis by bioactive molecules interfering with the BLT2-G α_i interaction

1506-1515

Joo-Young Kim, Won-Kyu Lee, Yeon Gyu Yu, Jae-Hong Kim



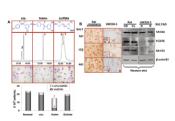
PHARMACOKINETICS AND DRUG METABOLISM

Identification of metabolic pattern and bioactive form of resveratrol in human medulloblastoma cells

1516-1525

Xiao-Hong Shu, Hong Li, Zheng Sun, Mo-Li Wu, Jing-Xin Ma, Jian-Min Wang, Qian Wang, Yuan Sun, Yuan-Shan Fu, Xiao-Yan Chen, Qing-You Kong, Jia Liu

trans-Resveratrol but not its *cis*- and sulfate counterparts exhibits anti-medulloblastoma efficacy (A) and medulloblastoma UW228-3 cells show less metabolic capacity due to the lower brain-associated sulfotransferase/SULT1A1, 1C2 and 4A1 levels than that expressed in the rat normal brain (B) (*) p < 0.001.

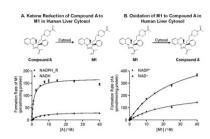


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