



Biochemical Pharmacology, Volume 80, issue 9, 1 November 2010

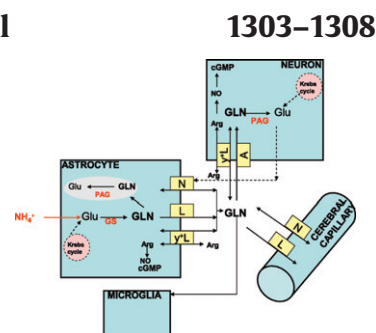
Contents

COMMENTARY

Glutamine as a mediator of ammonia neurotoxicity: A critical appraisal

Jan Albrecht, Magdalena Zielińska, Michael D. Norenberg

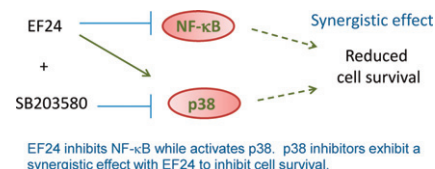
Major steps of Gln metabolism and transport in the CNS which may contribute to, or modulate, Gln-mediated ammonia toxicity.



ANTIBIOTICS AND CHEMOTHERAPEUTICS

Activation of the p38 pathway by a novel monoketone curcumin analog, EF24, suggests a potential combination strategy

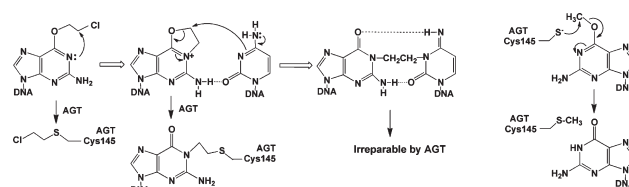
Shala L. Thomas, Jing Zhao, Zijian Li, Bin Lou, Yuhong Du, Jamie Purcell, James P. Snyder, Fadlo R. Khuri, Dennis Liotta, Haian Fu



Quantitative relationship between guanine *O*⁶-alkyl lesions produced by Onrigin™ and tumor resistance by *O*⁶-alkylguanine-DNA alkyltransferase

Kimiko Ishiguro, Yong-Lian Zhu, Krishnamurthy Shyam, Philip G. Penketh, Raymond P. Baumann, Alan C. Sartorelli

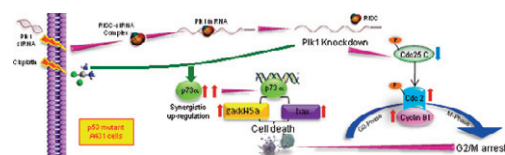
A novel AGT assay using [benzene-³H] *O*⁶-benzylguanine allows quantification of AGT molecules present in a cell as well as guanine *O*⁶-alkyl lesions generated in DNA by Onrigin™ and temozolomide.



Polo-like kinase1 (Plk1) knockdown enhances cisplatin chemosensitivity via up-regulation of p73 α in p53 mutant human epidermoid squamous carcinoma cells

1326–1334

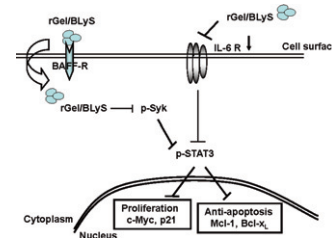
Shilpa Tyagi, Kulpreet Bhui, Richa Singh, Madhulika Singh, Sheikh Raisuddin, Yogeshwer Shukla



The rGel/BLyS fusion toxin inhibits STAT3 signaling via down-regulation of interleukin-6 receptor in diffuse large B-cell lymphoma

1335–1342

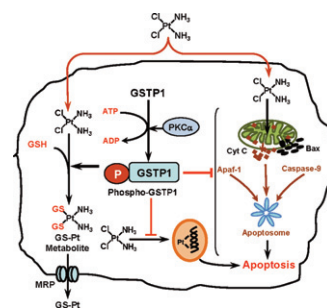
Mi-Ae Lyu, Bokyoung Sung, Lawrence H. Cheung, John W. Marks, Bharat B. Aggarwal, Ricardo C.T. Aguiar, Michael G. Rosenblum



Serine phosphorylation of glutathione S-transferase P1 (GSTP1) by PKC enhances GSTP1-dependent cisplatin metabolism and resistance in human glioma cells

1343–1355

Simendra Singh, Tatsunori Okamura, Francis Ali-Osman

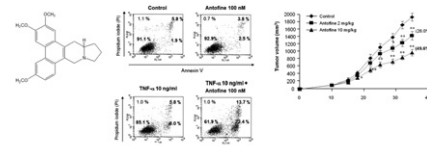


Inhibition of cell growth and potentiation of tumor necrosis factor- α (TNF- α)-induced apoptosis by a phenanthroindolizidine alkaloid antofine in human colon cancer cells

1356–1364

Hye-Young Min, Hwa-Jin Chung, Eun-Hye Kim, Sanghee Kim, Eun-Jung Park, Sang Kook Lee

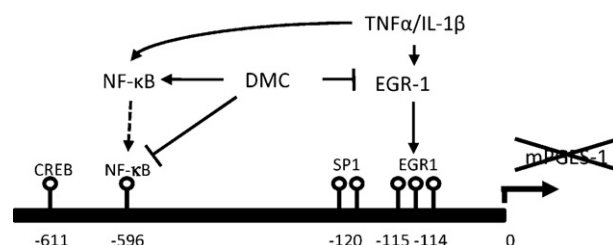
Antofine exhibited potent growth-inhibitory effects in several human cancer cells and showed antitumor effect *in vivo*. TNF- α -induced apoptosis was also augmented by treatment with antofine.



Dimethylcelecoxib inhibits mPGES-1 promoter activity by influencing EGR1 and NF- κ B

1365–1372

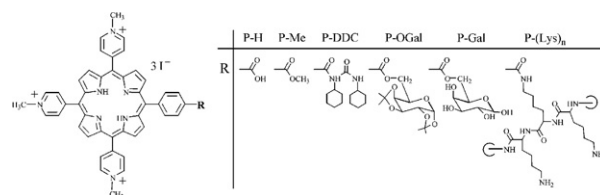
Klaus Deckmann, Florian Rörsch, Ramona Steri, Manfred Schubert-Zsilavecz, Gerd Geisslinger, Sabine Grösch



Chain-dependent photocytotoxicity of tricationic porphyrin conjugates and related mechanisms of cell death in proliferating human skin keratinocytes

1373–1385

João Nuno Silva, Antoine Galmiche, João P.C. Tomé, Agnès Boullier, Maria G.P.M.S. Neves, Eduarda M.P. Silva, Jean-Claude Capiod, José A.S. Cavaleiro, René Santus, Jean-Claude Mazière, Paulo Filipe, Patrice Morlière



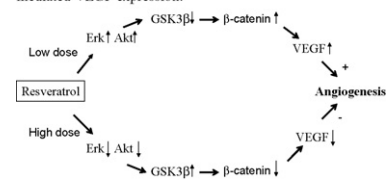
CARDIOVASCULAR PHARMACOLOGY

Resveratrol modulates angiogenesis through the GSK3 β / β -catenin/TCF-dependent pathway in human endothelial cells

1386–1395

Hui Wang, Haibin Zhou, Yongxin Zou, Qiao Liu, Chenhong Guo, Guimin Gao, Changshun Shao, Yaoqin Gong

Resveratrol modulates angiogenesis by regulating β -catenin mediated VEGF expression.

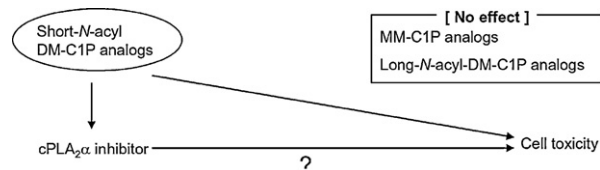


INFLAMMATION AND IMMUNOPHARMACOLOGY

Newly synthetic ceramide-1-phosphate analogs; their uptake, intracellular localization, and roles as an inhibitor of cytosolic phospholipase A₂ α and inducer of cell toxicity

1396–1406

Tomohiko Makiyama, Nobuo Nagasaka, Yuuya Houjiyo, Erika Yamaura, Hiroyuki Nakamura, Yuuki Koide, Atsushi Nishida, Toshihiko Murayama



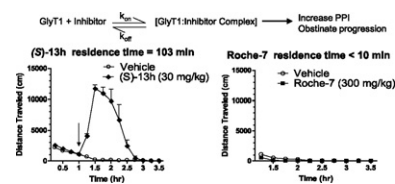
NEUROPHARMACOLOGY

Glycine transporter (GlyT1) inhibitors with reduced residence time increase prepulse inhibition without inducing hyperlocomotion in DBA/2 mice

1407–1417

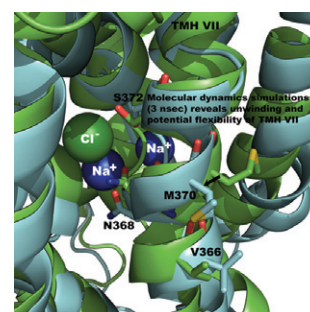
Karla Kopec, Dorothy G. Flood, Maciej Gasior, Beth Ann W. McKenna, Eva Zuvich, Justin Schreiber, Joseph M. Salvino, John T. Durkin, Mark A. Ator, Michael J. Marino

The GlyT1 inhibitors tested were efficacious in the prepulse inhibition model, but only those with short residence times (fast k_{off}) demonstrated efficacy without inducing obstinate progression.

**Conformational flexibility of transmembrane helix VII of the human serotonin transporter impacts ion dependence and transport**

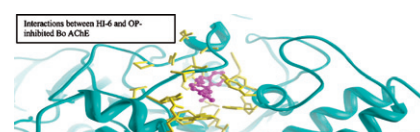
1418–1426

Cody J. Wenthur, Gustavo J. Rodríguez, Charles P. Kuntz, Eric L. Barker

**Y124 at the peripheral anionic site is important for the reactivation of nerve agent-inhibited acetylcholinesterase by H oximes**

1427–1436

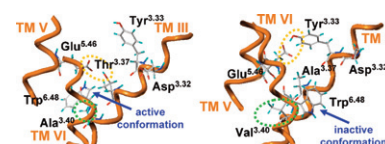
Chunyan Luo, Carolyn Chambers, Nagarajan Pattabiraman, Min Tong, Prasanthi Tipparaju, Ashima Saxena

**Comparison of the pharmacological properties of human and rat histamine H₃-receptors**

1437–1449

David Schnell, Andrea Strasser, Roland Seifert

This paper documents substantial pharmacological differences between human and rat histamine H₃-receptor. Most strikingly, in human H₃-receptor, imoproxifan stabilizes an active conformation. In rat H₃-receptor, imoproxifan stabilizes an inactive conformation.

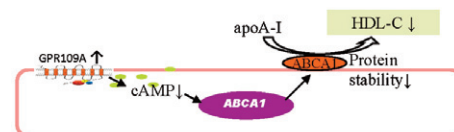


PHARMACOKINETICS AND DRUG METABOLISM

Modulation of HDL metabolism by the niacin receptor GPR109A in mouse hepatocytes**1450–1457**

Xiaoyu Li, John S. Millar, Nicholas Brownell, François Briand, Daniel J. Rader

Activation of GPR109A leads to reduced ABCA1 activity in mouse hepatocytes.



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 **ScienceDirect**www.elsevier.com/locate/biochempharm