



Biochemical Pharmacology, Volume 78, issue 5, 1 September 2009

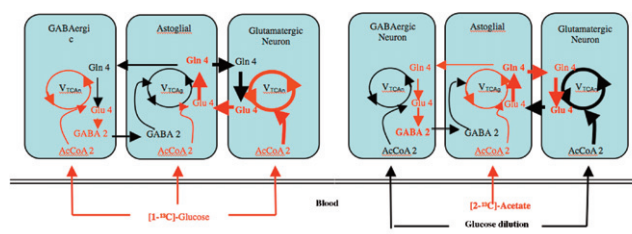
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COMMENTARY

Targeting glial physiology and glutamate cycling in the treatment of depression p 431–439

Gerald W. Valentine, Gerard Sanacora

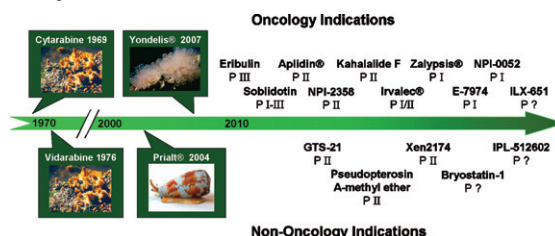
By combining magnetic resonance spectroscopy (MRS) with the infusion of isotopically-labeled precursors, *in vivo* measurements of amino acid cycling and glial metabolism can be measured in psychiatric disease models.



A renaissance in marine pharmacology: From preclinical curiosity to clinical reality p 440–448

Keith B. Glaser, Alejandro M.S. Mayer

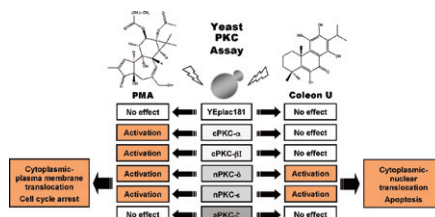
Opinions provided by leaders in marine natural products will address potential reasons and perceptions from academic and pharmaceutical communities regarding the development of marine natural products as viable therapeutic entities.



ANTIBIOTICS AND CHEMOTHERAPEUTICS

Selective activation of protein kinase C-δ and -ε by 6,11,12,14-tetrahydroxy-abieta-5,8,11,13-tetraene-7-one (coleon U) p 449–459

I. Coutinho, G. Pereira, M.F. Simões, M. Côrte-Real, J. Gonçalves, L. Saraiva

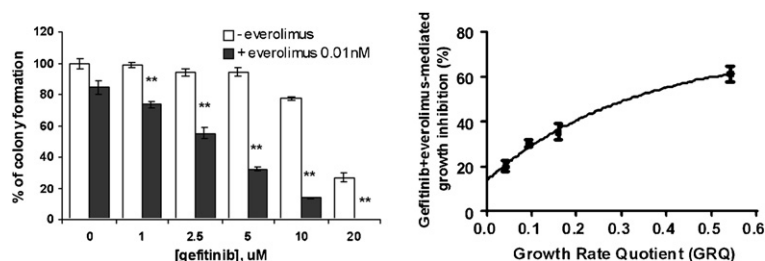


Everolimus restores gefitinib sensitivity in resistant non-small cell lung cancer cell lines

p 460–468

Silvia La Monica, Maricla Galetti, Roberta R. Alfieri, Andrea Cavazzoni, Andrea Ardizzoni, Marcello Tiseo, Marzia Capelletti, Matteo Goldoni, Sara Tagliaferri, Antonio Mutti, Claudia Fumarola, Mara Bonelli, Daniele Generali, Pier Giorgio Petronini

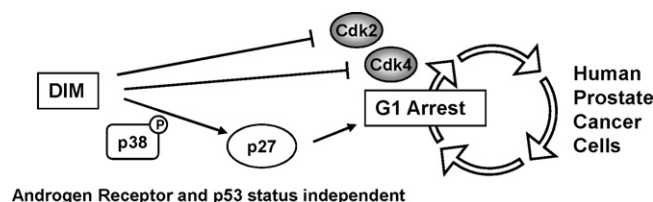
Combination treatment with gefitinib and everolimus might be of value in the treatment of NSCLC cells with high proliferative index.



3,3'-Diindolylmethane induces a G₁ arrest in human prostate cancer cells irrespective of androgen receptor and p53 status

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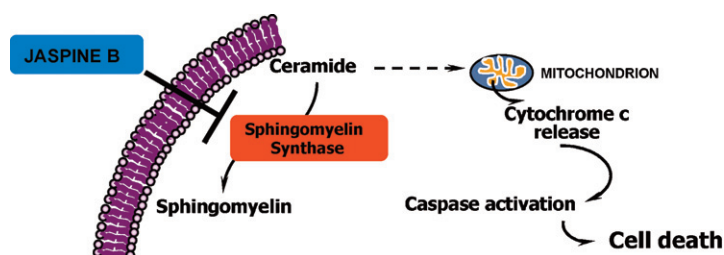
Omar I. Vivar, Chia-Lei Lin, Gary L. Firestone, Leonard F. Bjeldanes



The natural marine anhydrophytosphingosine, Jaspine B, induces apoptosis in melanoma cells by interfering with ceramide metabolism

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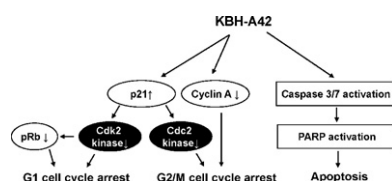
Yahya Salma, Elodie Lafont, Nicole Therville, Stéphane Carpentier, Marie-José Bonnafé, Thierry Levade, Yves Génisson, Nathalie Andrieu-Abadie



A novel δ -lactam-based histone deacetylase inhibitor, KBH-A42, induces cell cycle arrest and apoptosis in colon cancer cells

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Moo Rim Kang, Jong Soon Kang, Sang-Bae Han, Jang Hyun Kim, Dong-Myung Kim, Kiho Lee, Chang Woo Lee, Ki Hoon Lee, Chul Ho Lee, Gyoonee Han, Jong Seong Kang, Hwan Mook Kim, Song-Kyu Park

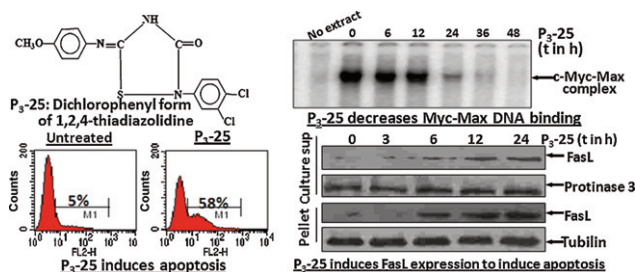


INFLAMMATION AND IMMUNOPHARMACOLOGY

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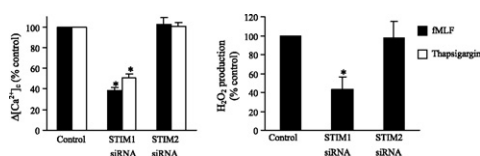
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Pongali B. Raghavendra, Niteen Pathak, Sunil K. Manna

**STIM1 but not STIM2 is an essential regulator of Ca²⁺ influx-mediated NADPH oxidase activity in neutrophil-like HL-60 cells**

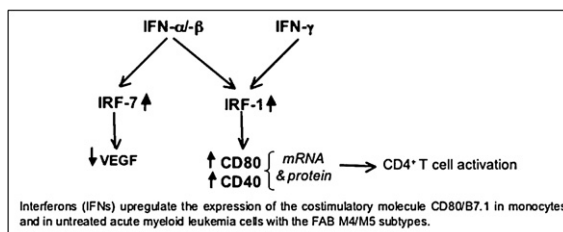
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S. Br  chard, S. Plan  on, C. Melchior, E.J. Tschirhart

STIM1, not STIM2, regulates Ca²⁺ influx-mediated NADPH oxidase activity in neutrophil-like HL-60 cells.**Types I and II interferons upregulate the costimulatory CD80 molecule in monocytes via interferon regulatory factor-1**

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B. Bauvois, J. Nguyen, R. Tang, C. Billard, J.-P. Kolb

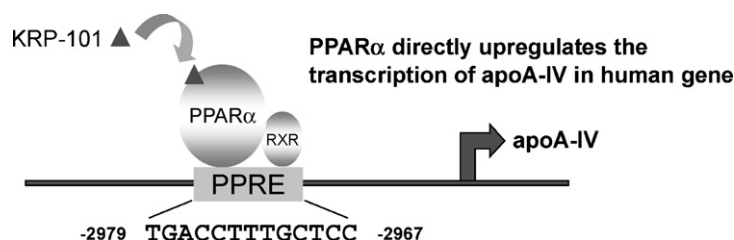


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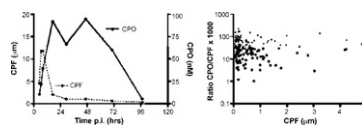
Michiaki Nagasawa, Tomoko Hara, Ai Kashino, Yunike Akasaka, Tomohiro Ide, Koji Murakami



TOXICOLOGY

Extreme variability in the formation of chlorpyrifos oxon (CPO) in patients poisoned by chlorpyrifos (CPF)**p 531–537**

Florian Eyer, Darren M. Roberts, Nicholas A. Buckley, Michael Eddleston, Horst Thiermann, Franz Worek, Peter Eyer

Formation of chlorpyrifos oxon (CPO) in self-inflicted poisoning with chlorpyrifos (CPF). Left: time course of plasma concentrations (single patient). Right: ratio of CPO/CPF 2–5 days after poisoning ($n = 74$).

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