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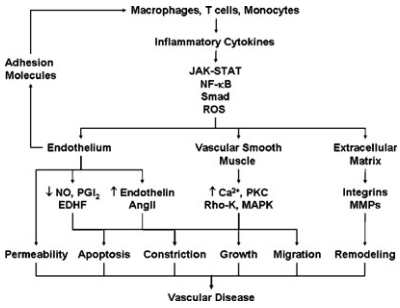
COMMENTARY

Inflammatory cytokines in vascular dysfunction and vascular disease p 539–552

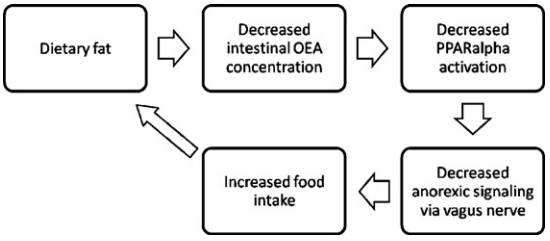
Alexander H. Sprague, Raouf A. Khalil



***N*-acylethanolamines, anandamide and food intake** p 553–560

Harald S. Hansen, Thi Ai Diep

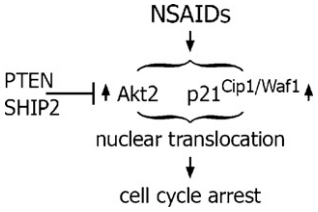
Oleoylethanolamide (OEA) formed locally in the intestine seems to regulate food intake via activation of PPARalpha, and dietary fat can decrease OEA levels in the intestine, an effect that may lead to over-consumption of food.



ANTIBIOTICS AND CHEMOTHERAPEUTICS

Multiple defects in negative regulation of the PKB/Akt pathway sensitise human cancer cells to the antiproliferative effect of non-steroidal anti-inflammatory drugs p 561–572

Eva Lincová, Aleš Hampl, Zuzana Pernicová, Andrea Staršíchová, Pavel Krčmář, Miroslav Machala, Alois Kozubík, Karel Souček



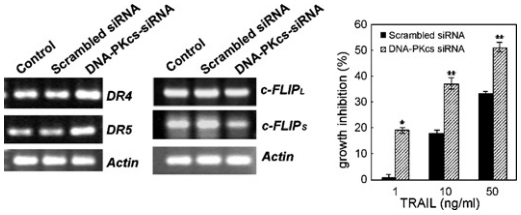
doi:10.1016/S0006-2952(09)00609-1

Sensitization of human K562 leukemic cells to TRAIL-induced apoptosis by inhibiting the DNA-PKcs/Akt-mediated cell survival pathway p 573–582

Mi-Ju Kim, Hak-Bong Kim, Jae-Ho Bae, Jae-Won Lee, Soo-Jung Park, Dong-Wan Kim, Sang-Ick Park, Chi-Dug Kang, Sun-Hee Kim

The mRNA levels of both DR4 and DR5 were significantly increased in K562 cells transfected with DNA-PKcs siRNA compared to the cells transfected with scrambled siRNA. We also found that suppression of DNA-PKcs using siRNA down-regulated c-FLIP and sensitized K562 cells to TRAIL-induced apoptosis through activation of caspase-8, -9 and -3.

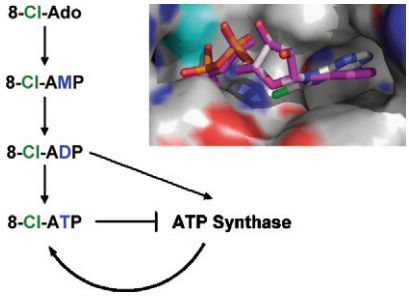
Moreover, the growth inhibitory effect of TRAIL in K562 cells was significantly increased after transfection with DNA-PKcs siRNA as compared with scrambled siRNA. This result was followed by increased susceptibility to TRAIL-induced apoptosis in K562 cells transfected with DNA-PKcs siRNA compared with that in the cells transfected with scrambled siRNA.



Inhibition of ATP synthase by chlorinated adenosine analogue p 583–591

Lisa S. Chen, Billie J. Nowak, Mary L. Ayres, Nancy L. Krett, Steven T. Rosen, Shuxing Zhang, Varsha Gandhi

Phosphorylated metabolites of 8-chloroadenosine (8-Cl-Ado). Phosphorylation of 8-Cl-ADP by ATP synthase to form 8-Cl-ATP and subsequent inhibition of ATP synthase by 8-Cl-ATP product. Molecular modeling of 8-Cl-ADP in ATP synthase.



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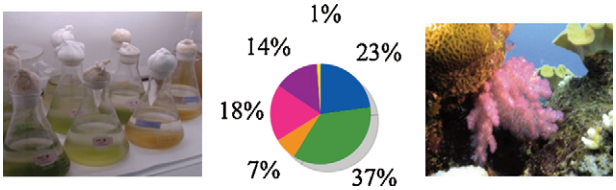
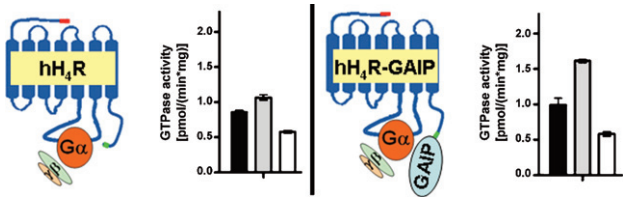


Histamine H_4 receptor–RGS fusion proteins expressed in Sf9 insect cells: A sensitive and reliable approach for the functional characterization of histamine H_4 receptor ligands p 607–616

Erich H. Schneider, Roland Seifert

When co-expressed with G_i-proteins in Sf9 cells, the histamine H_4 receptor shows only a low signal-to-background ratio. This ratio can be markedly enhanced by fusing the RGS protein GAIP to the receptor.



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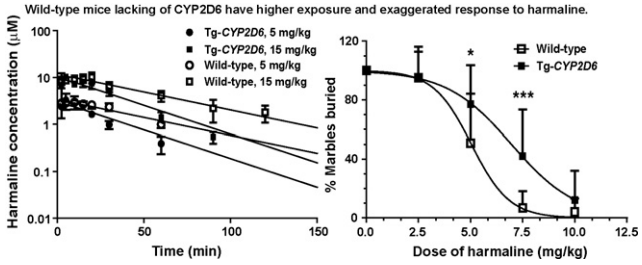

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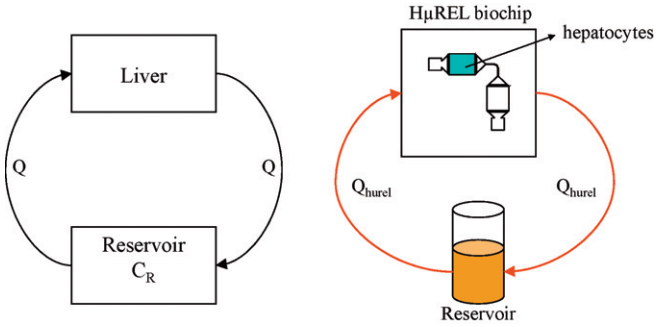

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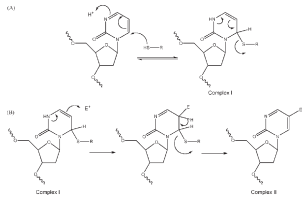
Dana M. van Bemmel, Adam S. Brank, Ramon Eritja, Victor E. Marquez, Judith K. Christman

Formation and reversal of 2-(1H)-pyrimidinone adduct with the activated thiol of a DNA C5-MTase.



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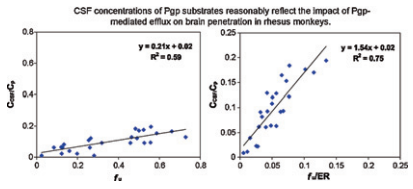
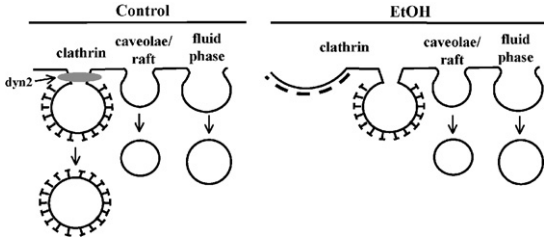


Pulmonary, Renal and Hepatic Pharmacology

Ethanol selectively impairs clathrin-mediated internalization in polarized hepatic cells **p 648–655**

David J. Fernandez, Benita L. McVicker, Dean J. Tuma, Pamela L. Tuma



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