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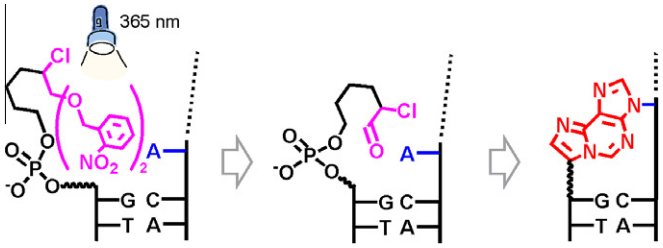
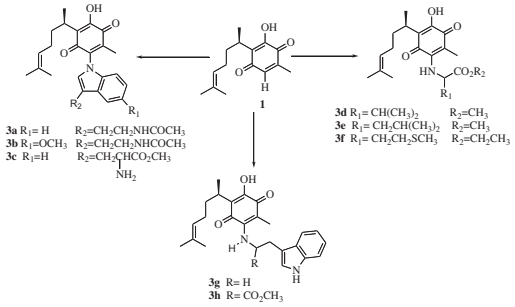
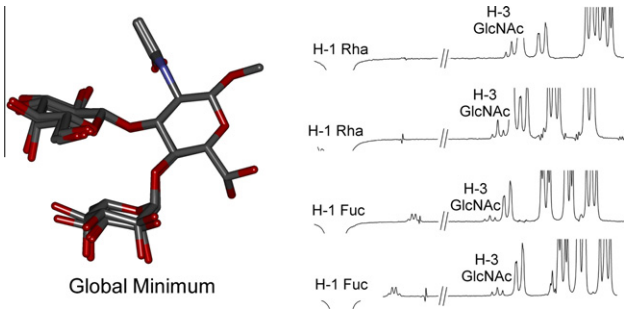
Contents

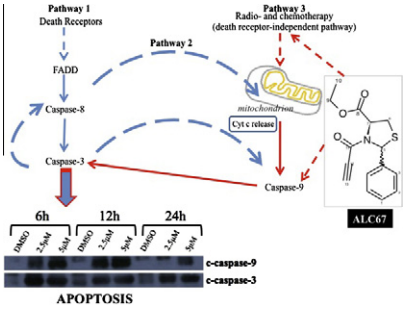
ARTICLES

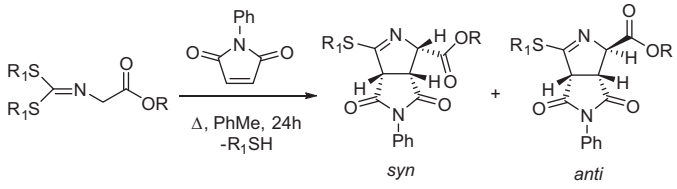


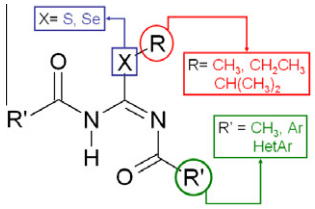
We have developed photoresponsive cross-linking oligodeoxyribonucleotides for sequence-selective interstrand covalent bond formation toward target nucleotides.



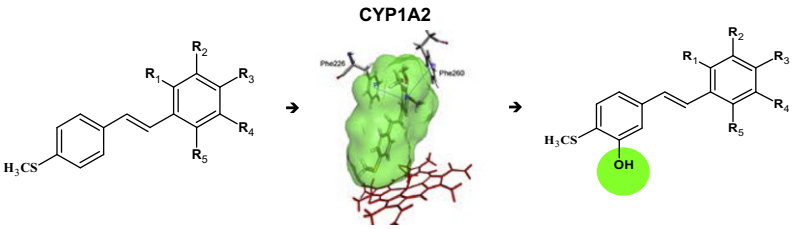




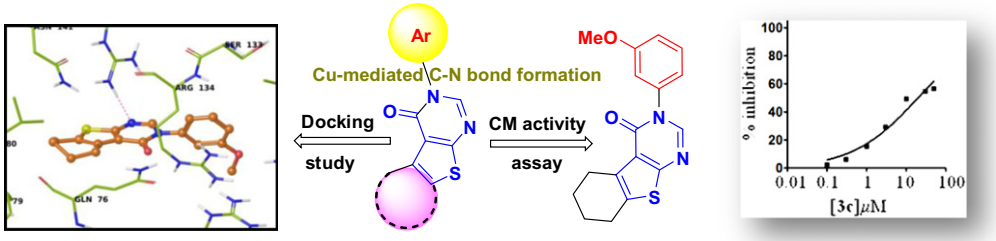


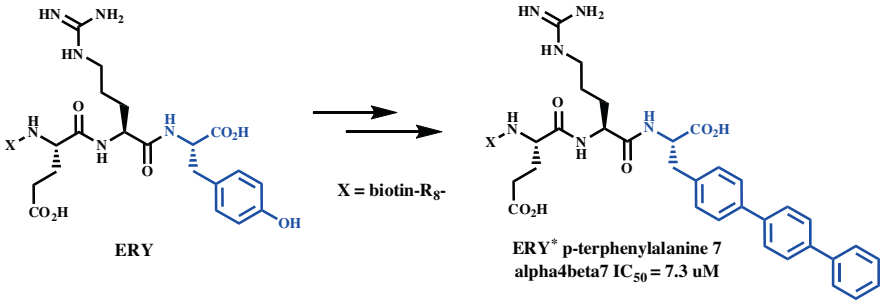


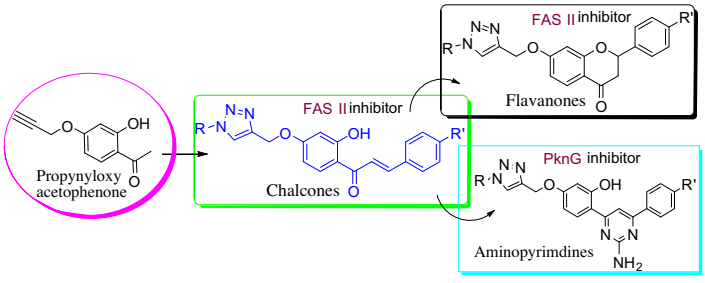
Structural overview of the imidothiocarbamates and imidoselenocarbamates with activity as pro-apoptotic agents related to the ability to release methylselenol.

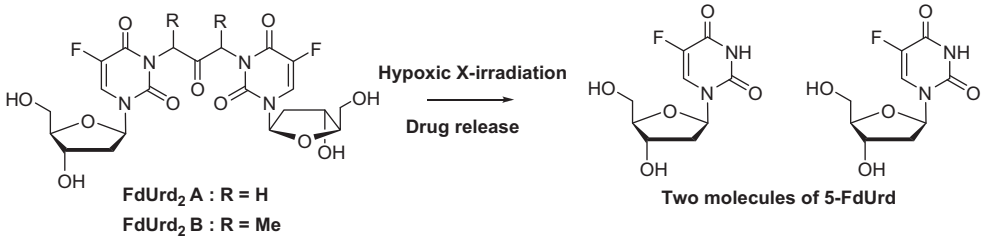


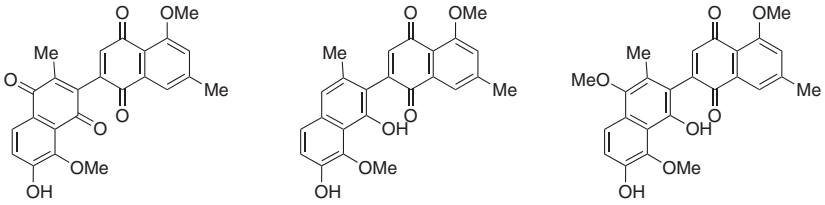
S1: $R_1 = R_3 = OCH_3$; $R_2 = R_4 = R_5 = H$
S2: $R_1 = R_4 = OCH_3$; $R_2 = R_3 = R_5 = H$
S3: $R_1 = R_2 = R_3 = OCH_3$; $R_4 = R_5 = H$
S4: $R_1 = R_3 = R_4 = OCH_3$; $R_2 = R_5 = H$
S5: $R_1 = R_3 = R_5 = OCH_3$; $R_2 = R_4 = H$
S6: $R_2 = R_3 = R_4 = OCH_3$; $R_1 = R_5 = H$
S7: $R_1 = Cl$; $R_2 = R_3 = R_4 = R_5 = H$

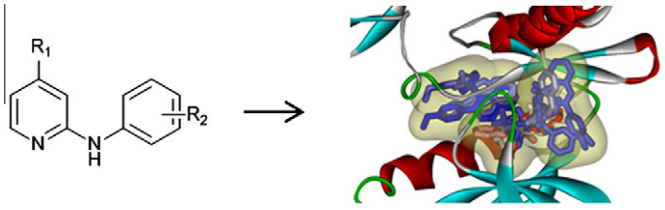


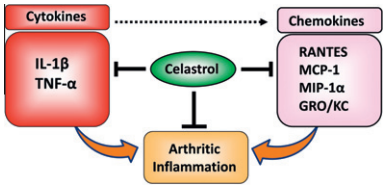


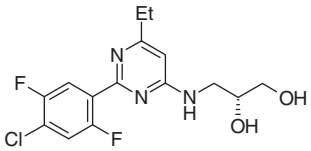






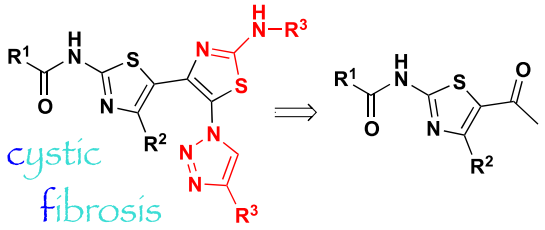


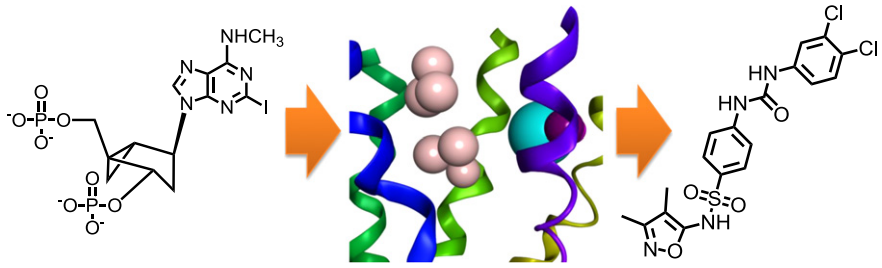


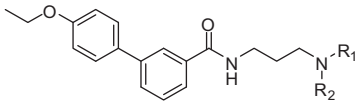


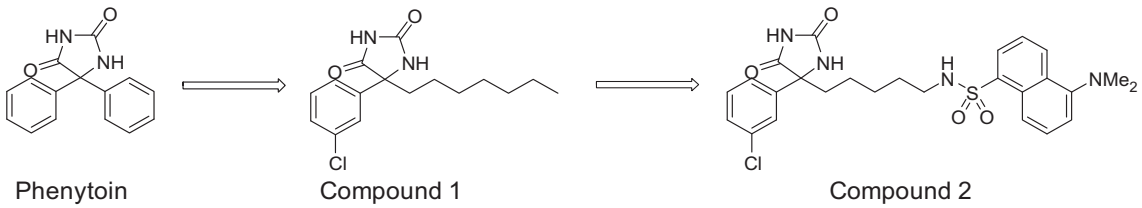
24g

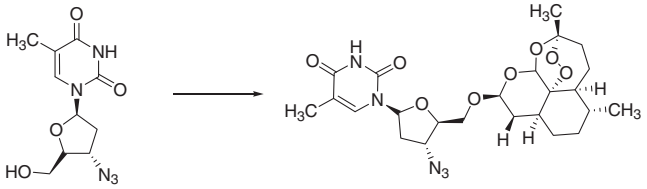
A series of novel 4-amino-2-phenylpyrimidine derivatives were synthesized and evaluated as GPR119 agonists. (2*R*)-3-{[2-(4-chloro-2,5-difluorophenyl)-6-ethylpyrimidin-4-yl]amino}propane-1,2-diol (**24g**) had highly potent GPR119 agonistic activity and excellent potency in vivo. Compound **24g** also showed an excellent antidiabetic effect in diabetic kk/Ay mice after one week of single daily treatment.

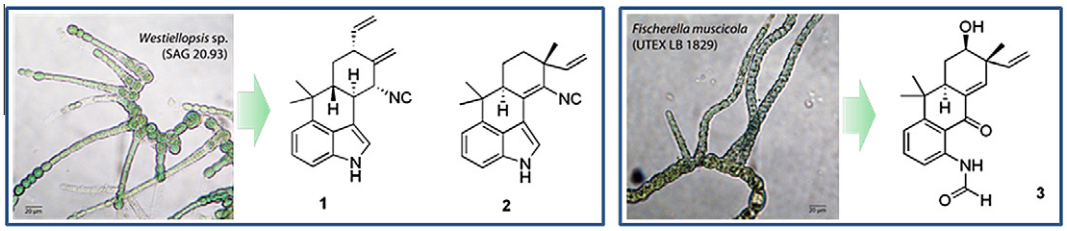


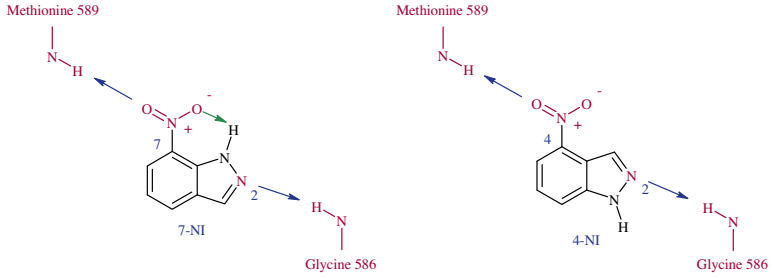












*Corresponding author
Supplementary data available via SciVerse ScienceDirect

COVER

Dipyrone (metamizol) is a common antipyretic drug and the most popular non-opioid analgesic in many countries. In spite of its long and widespread use, molecular details of its fate in the body are not fully known. Two unknown metabolites were now found, viz. arachidonoyl amides, and positively tested for cannabis receptor binding (CB1 and CB2) and cyclooxygenase inhibition. Two more puzzle pieces of the dipyrone story found! (Rogosch, T.; Sinning, C.; Podlewski, A.; Watzer, B.; Schlosburg, J.; Lichtman, A.H.; Cascio, M.G.; Bisogno, T.; Di Marzo, V.; Nüsing, R.; Imming, P. *Bioorg. Med. Chem.* **2012,** *20,* 103–109.]

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