



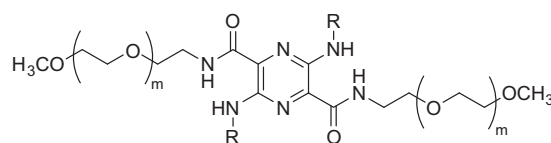
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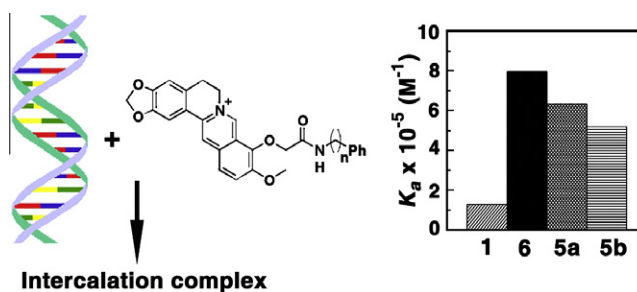
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- 4a–d: R = H; m = 3, 7, 11, 23
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 6a–b: R = *n*-Pr, (CH₂CH₂O)₃CH₃; m = 23
 7a–c: R = CH₂(CH₂CH₂O)_nCH₃, n = 7, 11, 23; m = 23

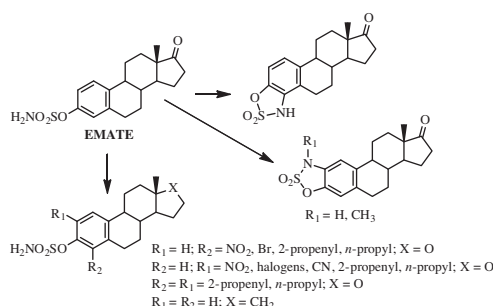
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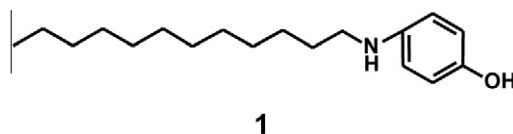
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Growth inhibition and mechanism of action of *p*-dodecylaminophenol against refractory human pancreatic cancer and cholangiocarcinoma

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Masahiko Imai, Noriko Takahashi*

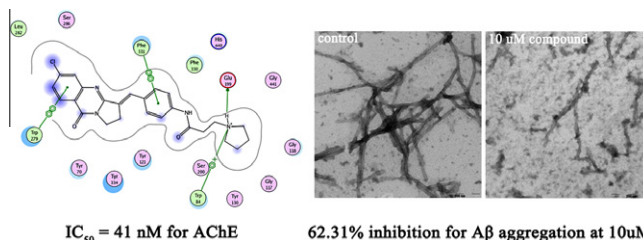


Compound **1** is an excellent growth inhibitor of refractory human pancreatic cancer and cholangiocarcinoma.

Design, synthesis and evaluation of isaindigotone derivatives as dual inhibitors for acetylcholinesterase and amyloid beta aggregation

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Jin-Wu Yan, Yan-Ping Li, Wen-Jie Ye, Shuo-Bin Chen, Jin-Qiang Hou, Jia-Heng Tan*, Tian-Miao Ou, Ding Li, Lian-Quan Gu, Zhi-Shu Huang*



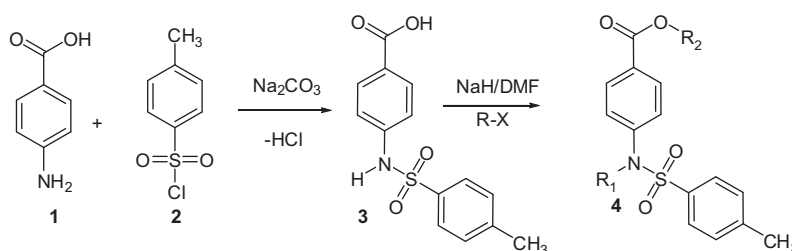
A variety of new isaindigotone derivatives were synthesized. Their structure–activity relationships were studied, and compound **6c** was found to be an excellent dual inhibitors for acetylcholinesterase and amyloid beta aggregation.



Synthesis of new sulfonamides as lipoxygenase inhibitors

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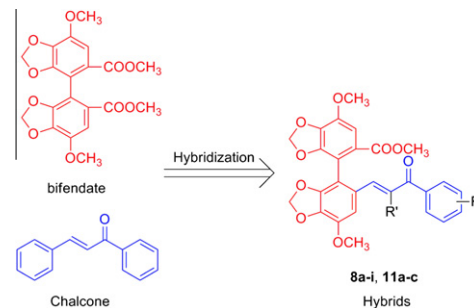
Ghulam Mustafa*, Islam Ullah Khan*, Muhammad Ashraf, Iftikhar Afzal, Sohail Anjum Shahzad, Muhammad Shafiq



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Xiaoke Gu, Zhiguang Ren, Xiaobo Tang, Hui Peng*, Yuanfang Ma, Yisheng Lai, Sixun Peng, Yihua Zhang*

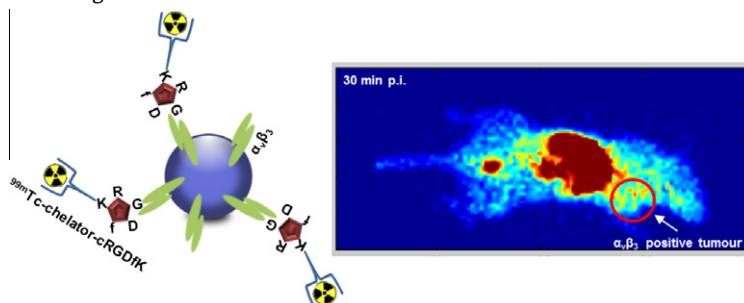


Compound **8g** ($R' = H$, $R = 2,4\text{-dimethyl}$) more potently reversed P-gp-mediated MDR and persisted longer time than verapamil.

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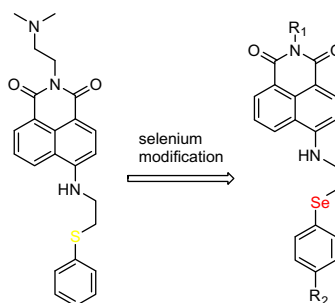
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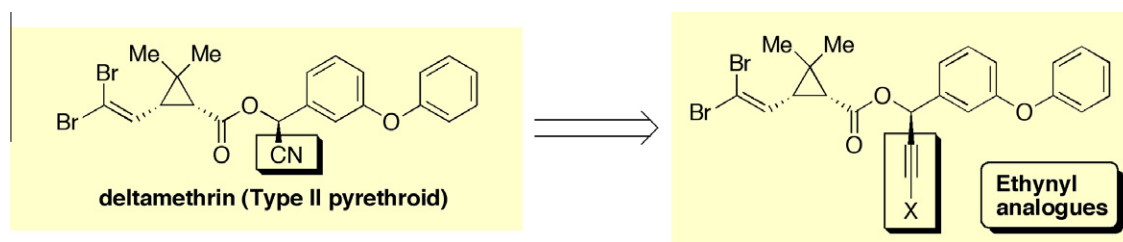
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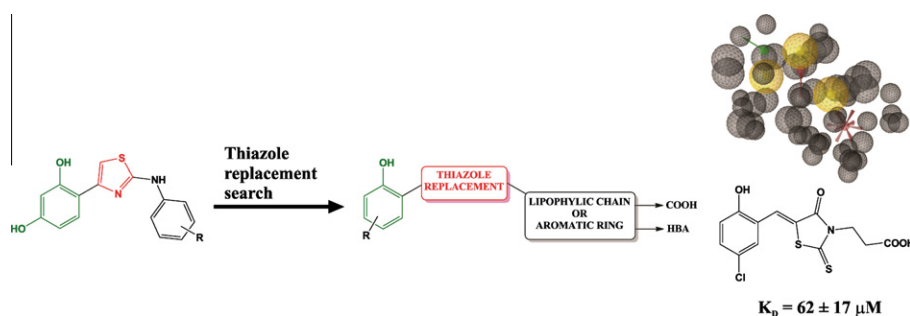
Potential agent to treat neuronal disorders



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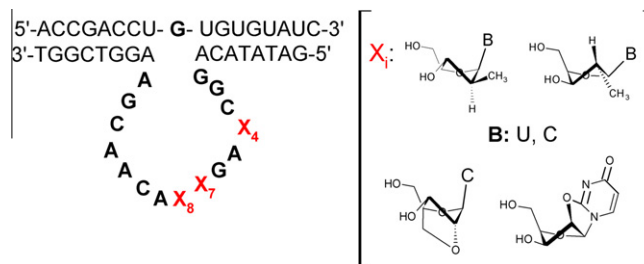
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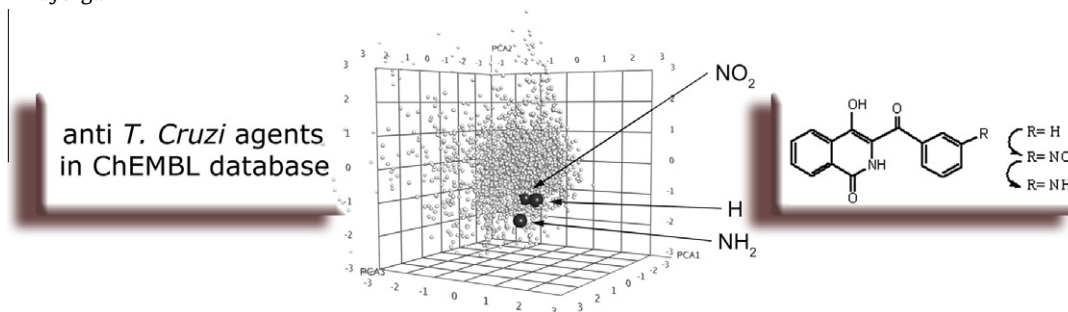
Laura Robaldo, Franco Izzo, María Dellafiore, Cecilia Proietti, Patricia V. Elizalde, Javier M. Montserrat, Adolfo M. Iribarren*



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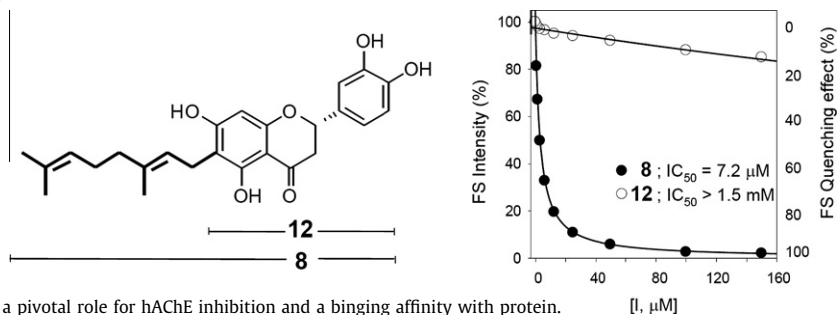
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Cholinestrase inhibitory effects of geranylated flavonoids from *Paulownia tomentosa* fruits

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Jung Keun Cho, Young Bae Ryu, Marcus J. Curtis-Long, Hyung Won Ryu, Heung Joo Yuk, Dae Wook Kim, Hye Jin Kim, Woo Song Lee, Ki Hun Park*



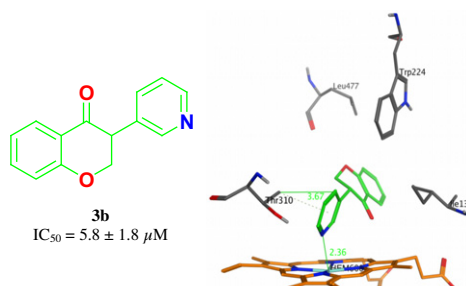
Geranyl group in flavonoids plays a pivotal role for hAChE inhibition and a binding affinity with protein.



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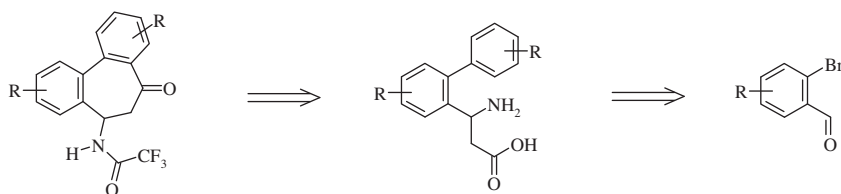
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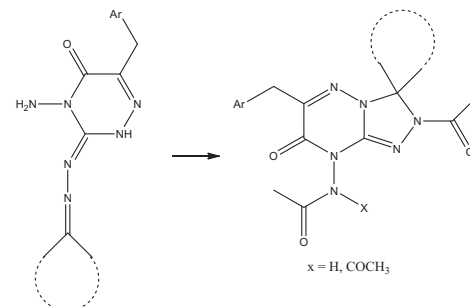
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**Synthesis and structure elucidation of novel fused 1,2,4-triazine derivatives as potent inhibitors targeting CYP1A1 activity**

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Abdel Moneim EL Massry, Ahmed Mosaad Asal, Sherine Nabil Khattab, Nesreen Saied Haiba, Hala A. Awney*, Mohamed Helmy, Vratislav Langer, Adel Amer*

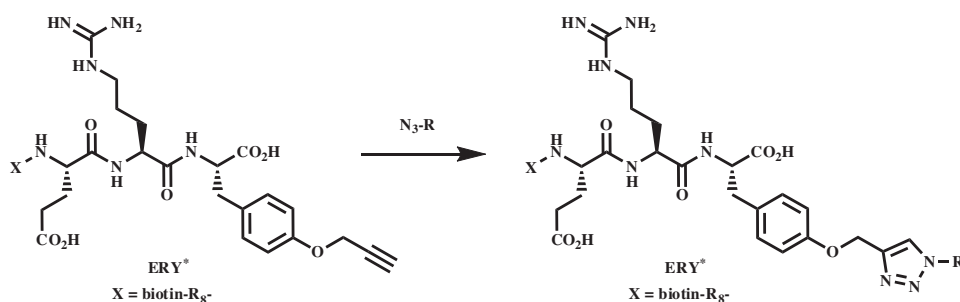


A new series of acetylated 6-substituted benzyl-7-oxo-3-substituted phenyl-2,3-dihydro-7H-[1,2,4]triazolo[4,3-b][1,2,4]triazine analogues were synthesized and showed to possess chemo-preventive anticancer properties.

Tyrosine modified analogues of the $\alpha 4\beta 7$ integrin inhibitor biotin- R_8 ERY prepared via Click Chemistry: Synthesis and biological evaluation

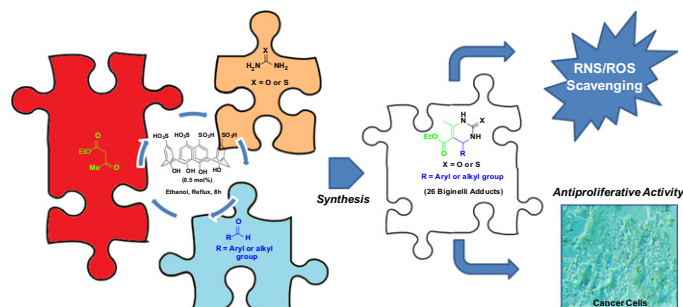
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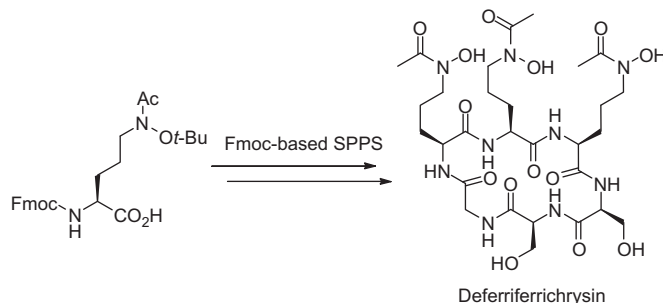
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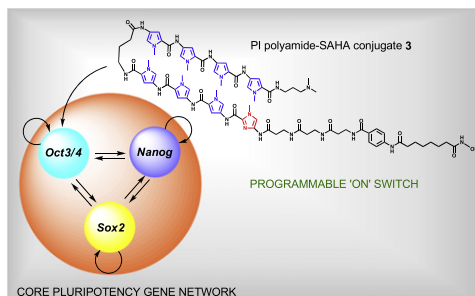
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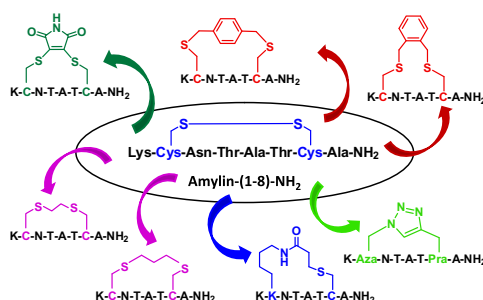
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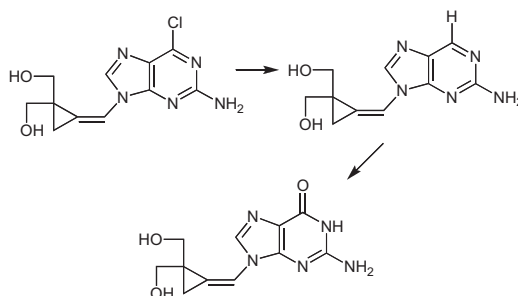
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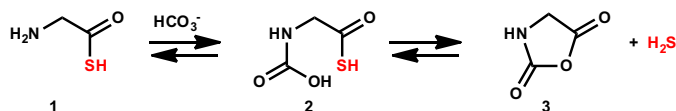
Chengwei Li, Debra C. Quenelle, Mark N. Prichard, John C. Drach, Jiri Zemlicka*



Thioglycine and L-thiovaline: Biologically active H₂S-donors

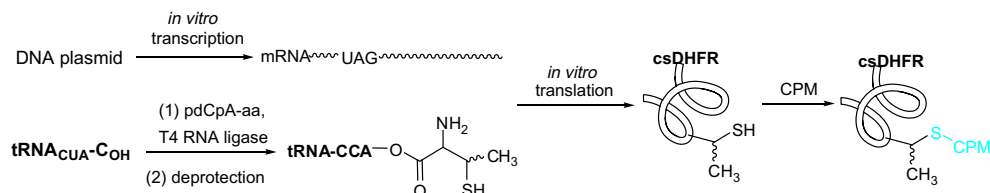
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**Synthesis of pdCpAs and transfer RNAs activated with thiothreonine and derivatives**

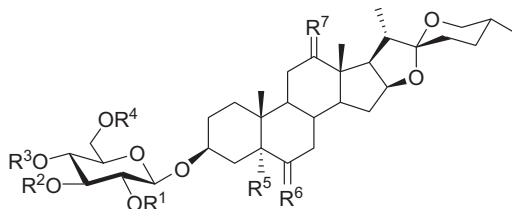
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**New insights into the structure–cytotoxicity relationship of spirostan saponins and related glycosides**

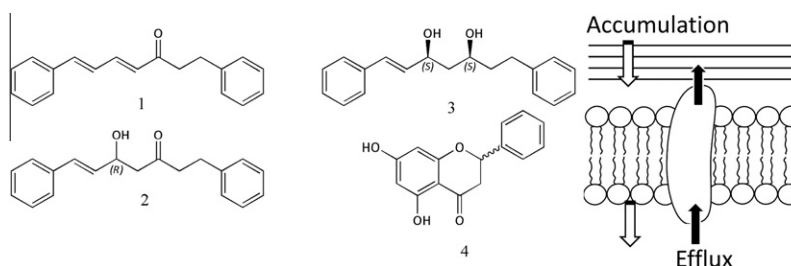
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Karell Pérez-Labrada, Ignacio Brouard*, Sara Estévez, María Teresa Marrero, Francisco Estévez, Jaime Bermejo, Daniel G. Rivera*

R¹ = R³ = α-L-Rha, R² = R⁴ = R⁵ = R⁶ = H, R⁷ = O; IC₅₀ 4.3 μMR¹ = R³ = R⁷ = H, R² = R⁴ = Piv, R⁵ = OH, R⁶ = O; IC₅₀ 2.1 μM**Compounds of *Alpinia katsumadai* as potential efflux inhibitors in *Mycobacterium smegmatis***

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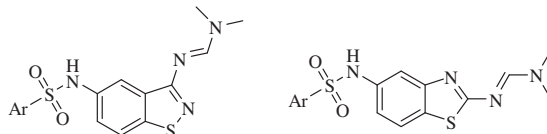
Barbara Gröblacher, Olaf Kunert, Franz Bucar*



Synthesis and biological evaluation of benzoisothiazole derivatives possessing *N,N*-dimethylformimidamide group as 5-HT₆ receptor antagonists

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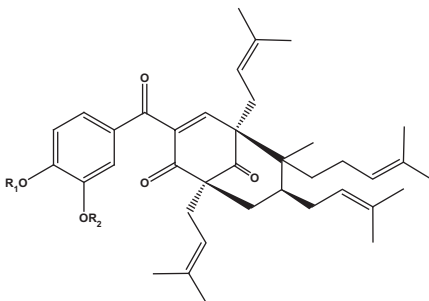
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Semisynthesis and antimicrobial activity of novel guttiferone-A derivatives

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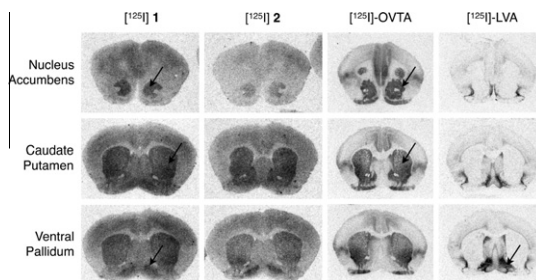
Kris S. T. Dias, Jaqueline P. Januário, Jéssica Lopes D' Deigo, Amanda L. T. Dias, Marcelo H. dos Santos, Ihosvany Camps, Luiz Felipe L. Coelho, Claudio Viegas Jr.*



Synthesis and evaluation of C-11, F-18 and I-125 small molecule radioligands for detecting oxytocin receptors

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Aaron L. Smith, Sara M. Freeman, Jeffery S. Stehouwer, Kiyoshi Inoue, Ronald J. Voll, Larry J. Young*, Mark M. Goodman*



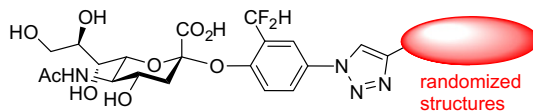
The oxytocin system has been implicated as being a modulator of social behavior patterns. A family of small molecule ligands and their radiolabeled analogues having potency for the oxytocin receptor were investigated for functionality in autoradiography and PET imaging.



Aglycone-focused randomization of 2-difluoromethylphenyl-type sialoside suicide substrates for neuraminidases

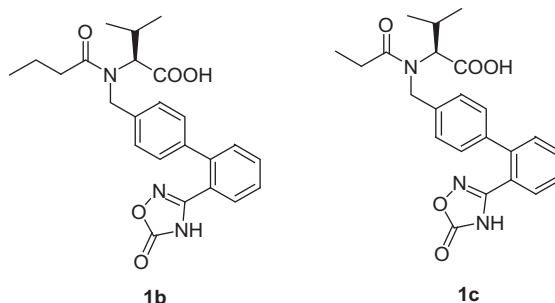
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Hirokazu Kai, Hiroshi Hinou*, Shin-Ichiro Nishimura

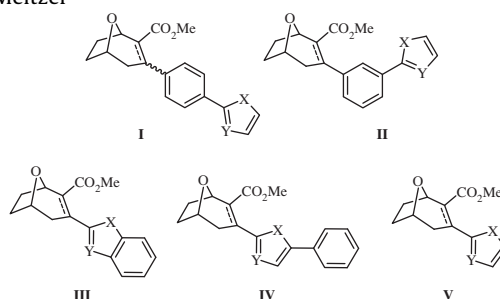


Synthesis and biological evaluation of novel potent angiotensin II receptor antagonists with anti-hypertension effect pp 2747–2761

Yong-yan Nie, Ya-jing Da, Hao Zheng, Xiao-xia Yang, Lin Jia, Cai-hong Wen, Li-sha Liang, Juan Tian, Zhi-long Chen*

**Synthesis and structure–activity relationship studies of 3-biaryl-8-oxabicyclo[3.2.1]octane-2-carboxylic acid methyl esters** pp 2762–2772

Lokman Torun*, Bertha K. Madras, Peter C. Meltzer*



*Corresponding author

i+ 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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