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Medicinal
Chemistry

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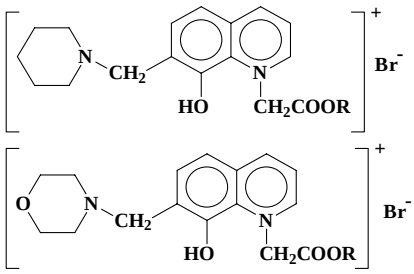
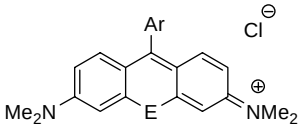
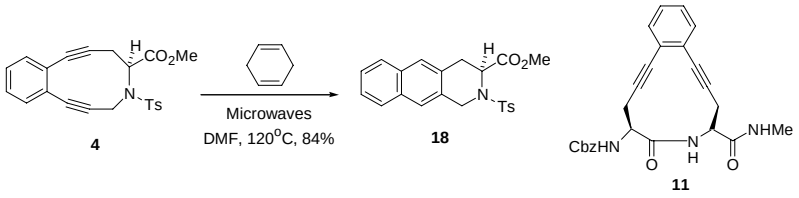


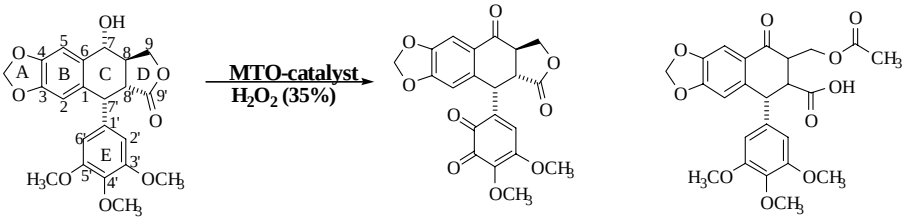


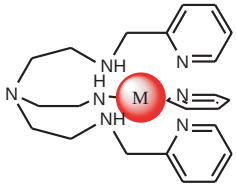
E = S, Se
Ar = Ph, 2-thienyl, 4-$Me_2NC_6H_4$, 2-naphthyl

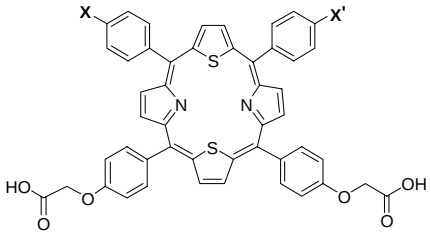
A series of substituted thio- and seleno-analogues of tetramethylrosamine was prepared and evaluated as photosensitizers for the photodynamic purging of blood-borne viral and bacterial pathogens.



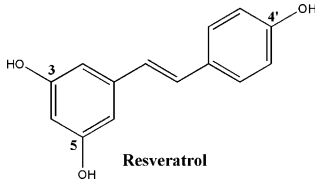
Benzofused enediynes such as **4** and **11** have been prepared and investigated.



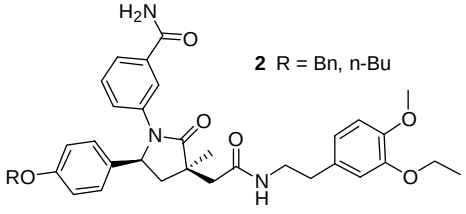




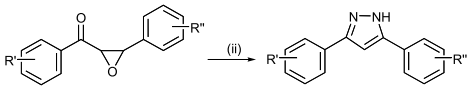
X and/or **X'** =
H, F, Cl, CF_3,
OCH_3, OH, $N(CH_3)_2$,
isopropyl, phenyl

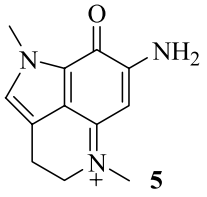


This work describes the theoretical basis of the selective inhibition of the prostaglandin endoperoxide H_2 synthase (PGHS)-1 peroxidase site promoted by the natural product, resveratrol.



Preparation and testing of the highly substituted γ-lactam analogues **2** is reported.





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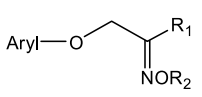
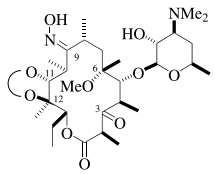
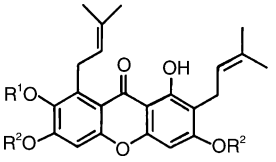


Aryl = flavone-3-yl;
flavone-6-yl;
flavone-7-yl;
isoflavone-7-yl



9-oxime-3-ketolide

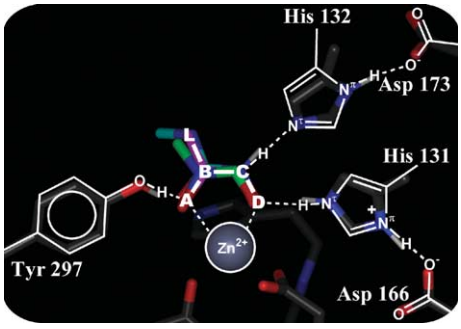
In the search for new types of ketolide antibiotics active against key respiratory pathogens including erythromycin-resistant strains, we conducted an extensive study on the modification at the C-11,12-diol moiety of 9-oxime-3-ketolide derivatives.



α-Mangostin (αM): R^1=Me, R^2=R^3=H
β-Mangostin (βM): R^1= =R^3=Me, R^2=H
γ-Mangostin (γM): R^1=R^2=R^3=H
β-Mangostin -OMe(βM-OMe) R^1=R^2=R^3= Me

We investigated the antiproliferative effects of four structurally similar prenylated xanthones, α-mangostin, β-mangostin, γ-mangostin, and methoxy-β-mangostin, in human colon cancer DLD-1 cells.

A series of zinc-binding groups were ranked by their HDAC inhibitory potential, calculated at a high level of theory. The estimated binding energies were qualitatively validated with experimental results from the literature, and were shown to be meaningful for the purpose of ranking. Also, several criteria for binding were identified.



OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

2005: Human liver glycogen phosphorylase A (HLGPa) is an attractive target enzyme for discovering anti-type 2 diabetes drugs. This picture shows the interaction model for a series of indole-2-carboxamides to HLGPa derived from molecular docking simulations [Liu, G.; Zhang, Z.; Luo, X.; Shen, J.; Liu, H.; Shen, X.; Chen, K.; Jiang, H. *Bioorg. Med. Chem.* **2004**, *12*, 4147–4157].

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