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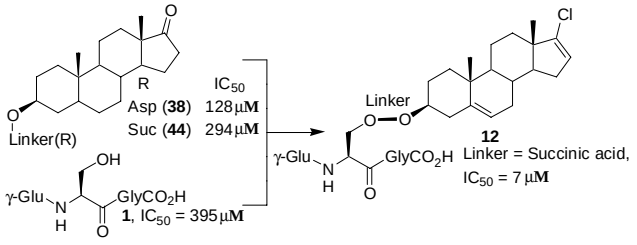
# Contents

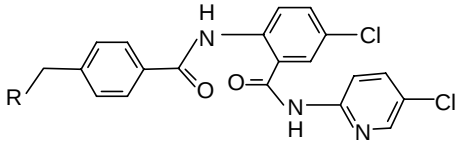
## ARTICLES





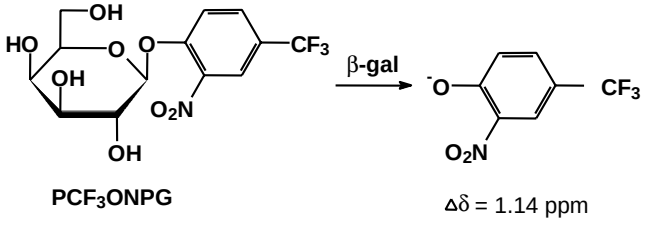

This figure shows design of the potent *Schistosoma japonicum* glutathione *S*-transferase inhibitors.

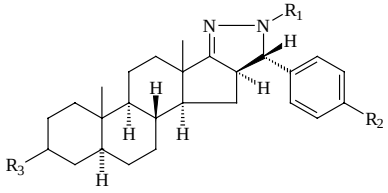





The paper deals with the quantitative structure–activity relationship study on an anthranilamide-based factor $X_a$ inhibitory activity as a function of physico-chemical parameters and predicts the best factor $X_a$ inhibitory compound. The predictive power of the proposed models is discussed on the basis of regression analysis and cross-validation parameters.

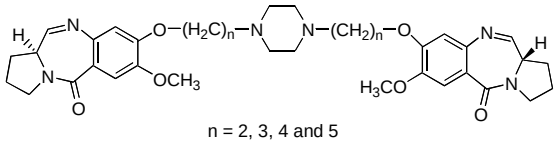




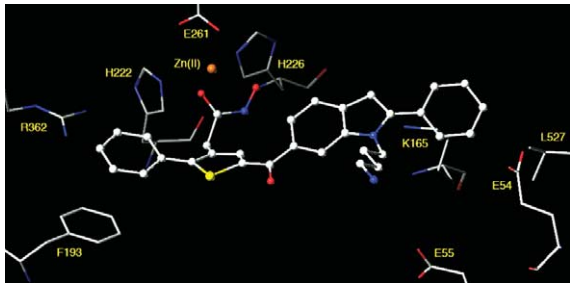


A series of androstano[17,16-*c*]pyrazolines and their oxidized derivatives were synthesized by using **3β**-hydroxyandrostan-17-one as starting material.

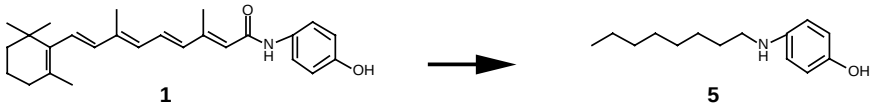


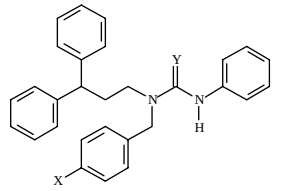




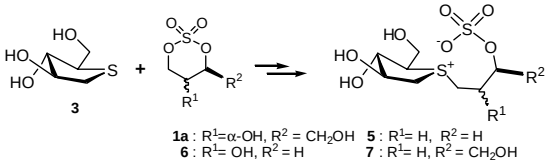





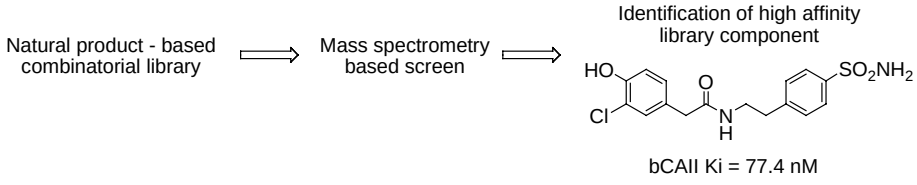




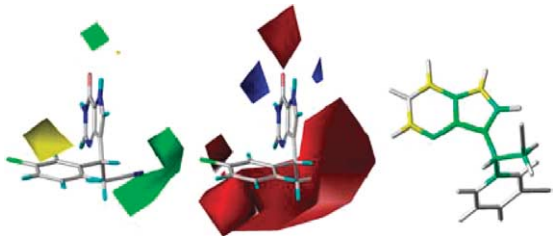

Three analogs (**5**, **6**, and **7**) lacking polar substituents in the side chain of salacinol (**1a**) were synthesized and their α-glucosidase inhibitory activities were examined. The evaluation indicated the importance of the cooperative role of the polar substituents for the α-glucosidase inhibitory activity. A practical synthetic route to **3** starting from D-xylose is also described.

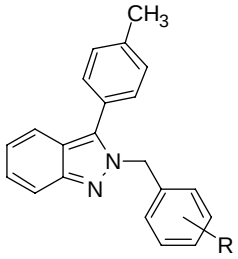




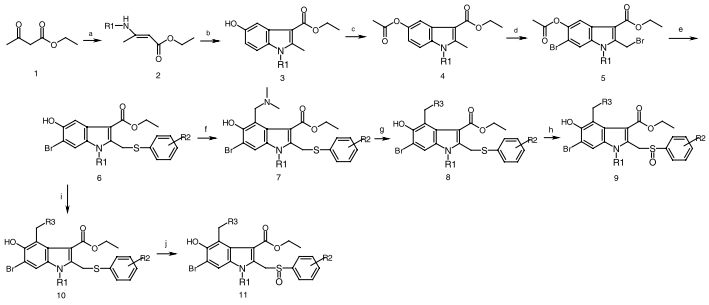

FTICR mass spectrometry was utilised to screen a natural product-based combinatorial library for bovine carbonic anhydrase II binders. One high-affinity ligand was identified in a single mass spectrometry experiment and this result was validated by a competitive bCAII enzyme binding assay.



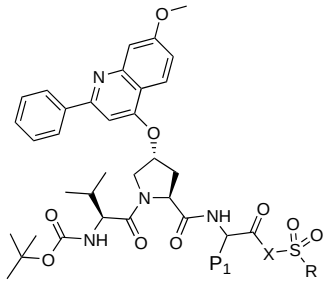






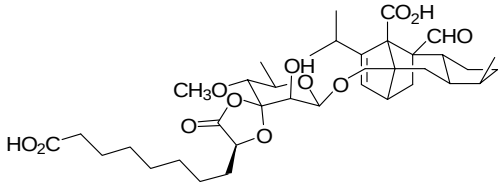


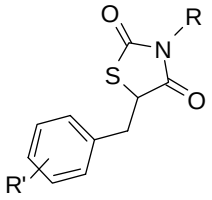




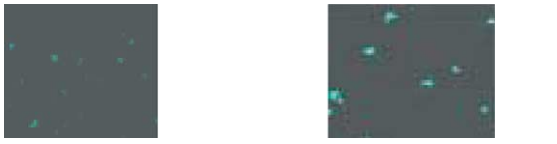
X = NH, NMe or $CH_2$





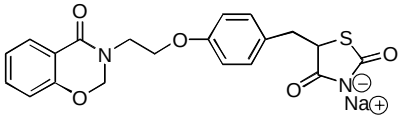





Polyphenolic acetates are the novel potent enhancers of intracellular nitric oxide.






Synthesis, SAR study, and biological evaluation of a new series of 1,3-4(3*H*)benzoxazinone derivatives of thiazolidinedione are reported.

## OTHER CONTENTS



*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

## COVER

Structure of the novel sordarin analog moriniafungin superimposed on a colony of mycelia from the producing fungus, *Morinia pestalozzioides* (right). Illustration of the characteristic asexual spores of *Morinia pestalozzioides* (lower left). Inflorescences of *Sedum sediforme*, a host of the fungus (upper left). A. Basilio, M. Justice, G. Harris, G. Bills, J. Collado, M. de la Cruz, M. T. Diez, P. Hernandez, P. Liberator, J. Nielsen kahn, F. Pelaez, G. Platas, D. Schmatz, M. Shastry, J. R. Tormo, G. R. Andersen and F. Vicente. © 2005 Elsevier Ltd.



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