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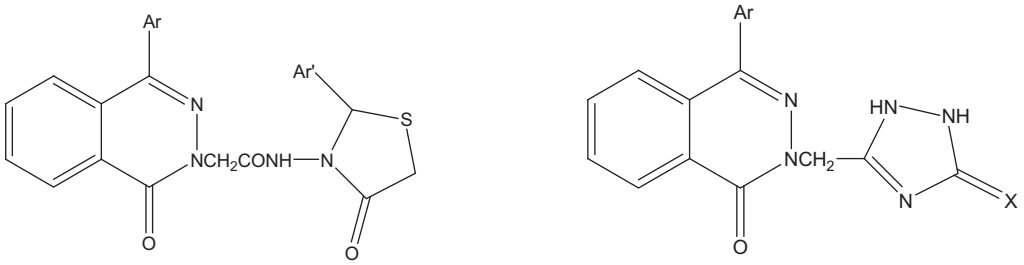
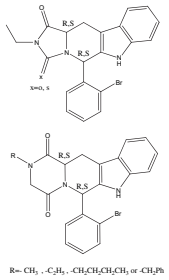
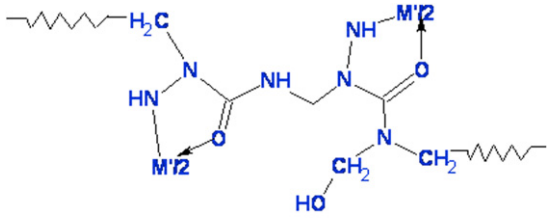
European Journal of Medicinal Chemistry Vol 45, No 4, 2010

Contents

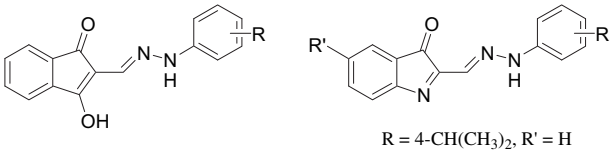
ORIGINAL RESEARCH ARTICLES



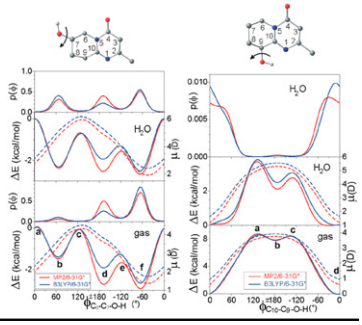


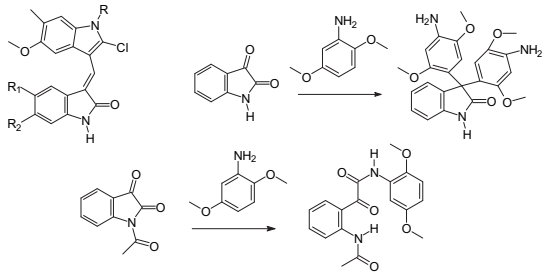


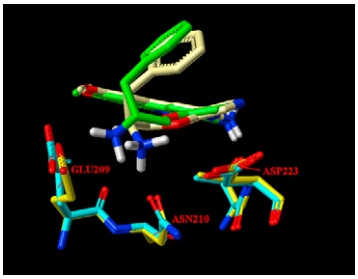
Polymer metal complexes are prepared by the reaction of polymeric resin with metal acetates in 2:1 molar ratio

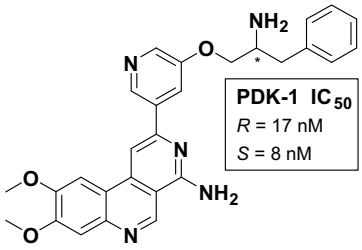


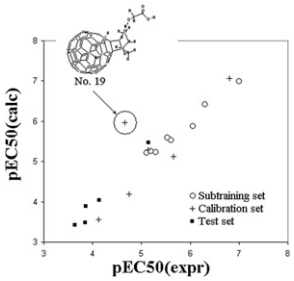
R = 4-$CH(CH_3)_2$, R' = H
IC_{50} **1.4 μM**

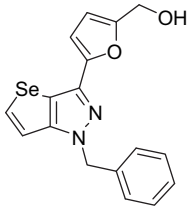












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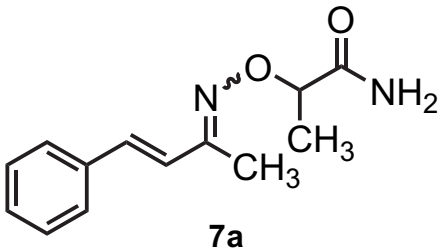
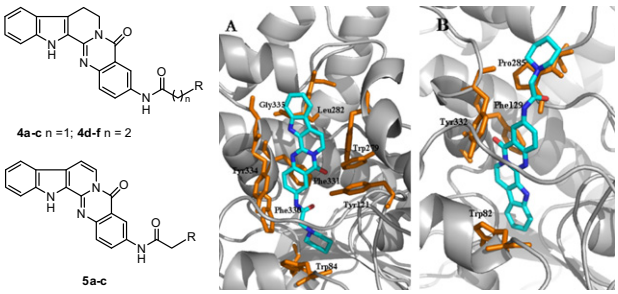
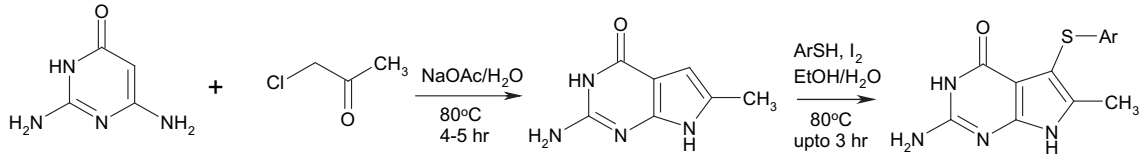


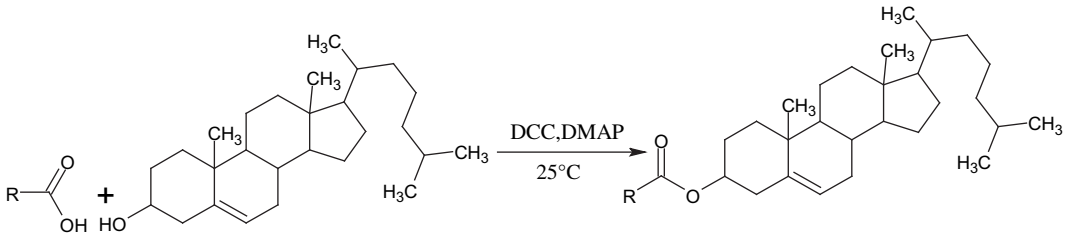
7a



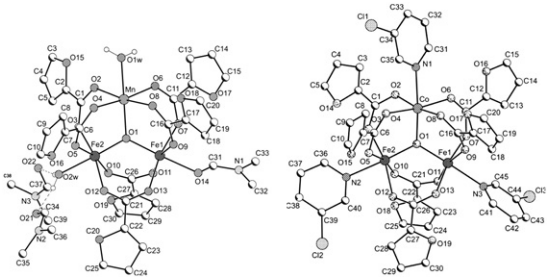


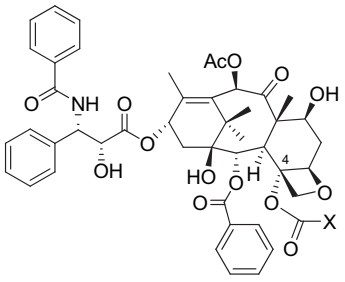
New pyrrolopyrimidines were synthesized using 2,4-diamino-6-hydroxypyrimidine and chloroacetone as starting compounds. On evaluation nitrobenzimidazole (Ar) linked pyrrolopyrimidine exhibited significant activity against HCT116 colon cancer cell lines ($IC_{50} = 17.6\ \mu M$) and dose dependent induction of apoptosis.

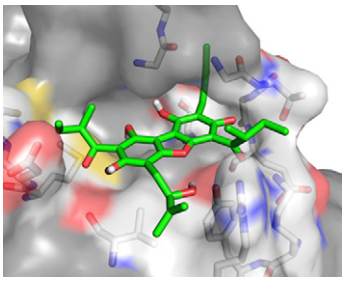
In this study we synthesized fatty acid analogs of cholesterol using DCC and DMAP as a catalyst. All synthesized compounds were characterized using different spectral techniques. The newly synthesized compounds were screened for their antimicrobial activity.

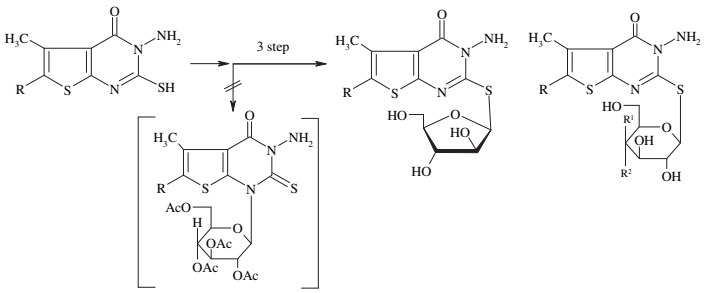


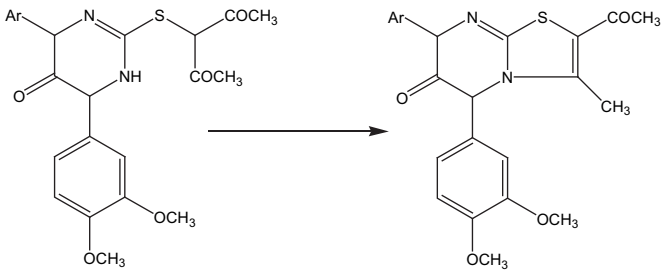
New hetero(μ_3-oxo)trinuclear iron (III) furoates have been prepared and investigated by X-ray, Mössbauer and IR spectroscopies. It was shown that the iron(III)–cobalt(II) containing compounds with furoate ligand exhibited high anti-tuberculosis activity, which is unexpected result for these class of compounds.

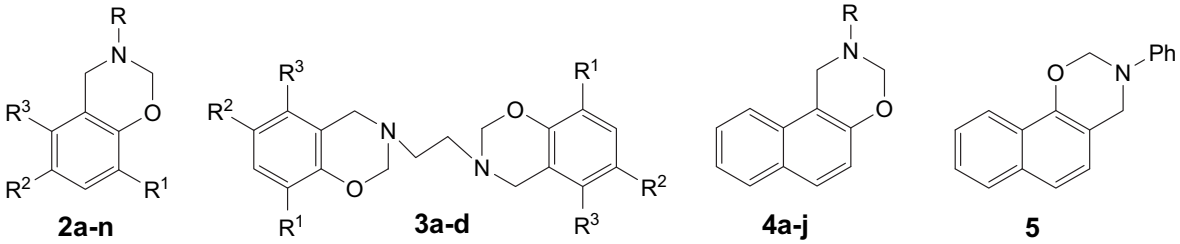


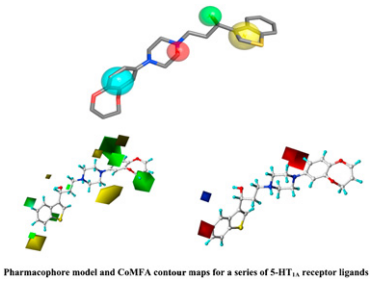




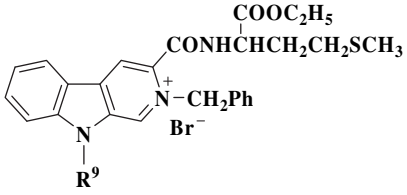




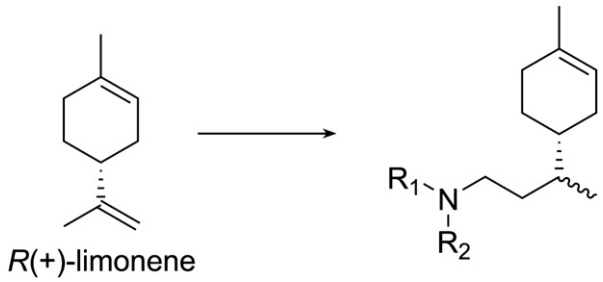


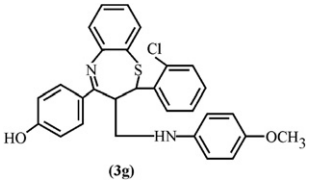


Pharmacophore model and CoMFA contour maps for a series of 5-HT$_{1A}$ receptor ligands



8b R^9=n-C_4H_9
8g R^9=$(CH_2)_3Ph$





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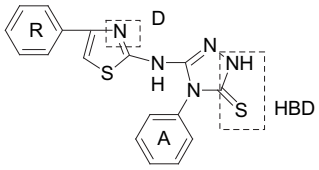
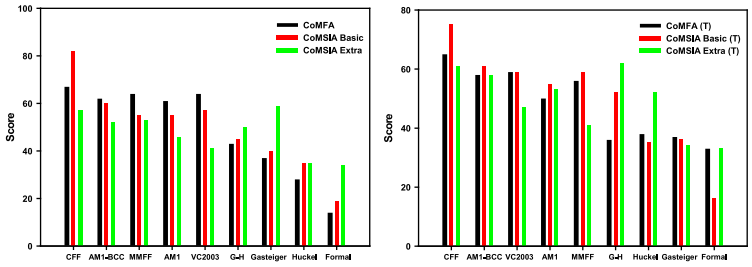
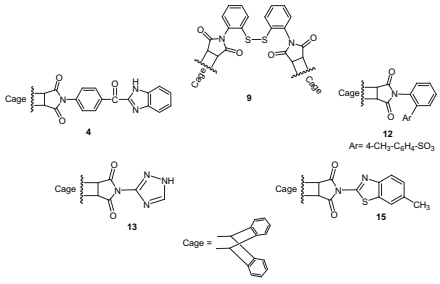
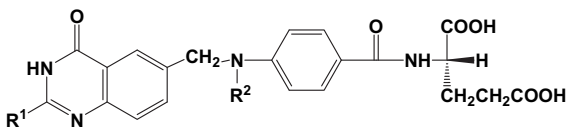
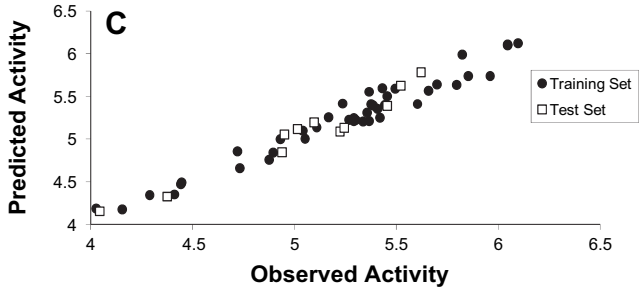


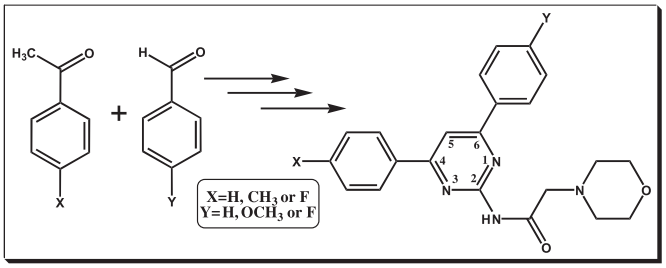
Compounds (**7a-t**)

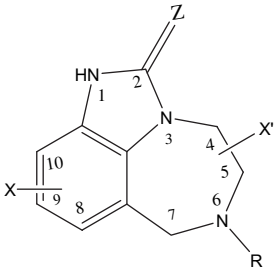


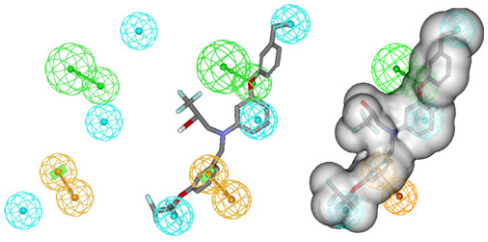


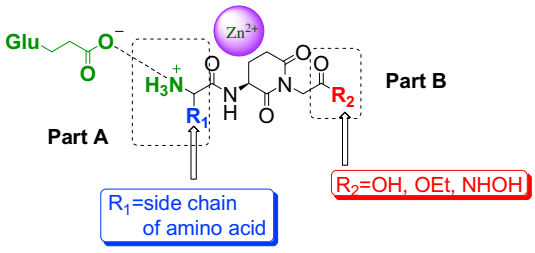




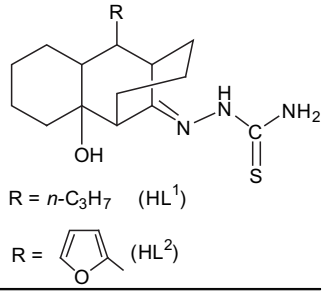


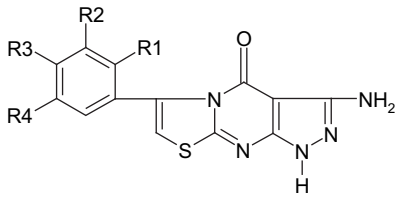


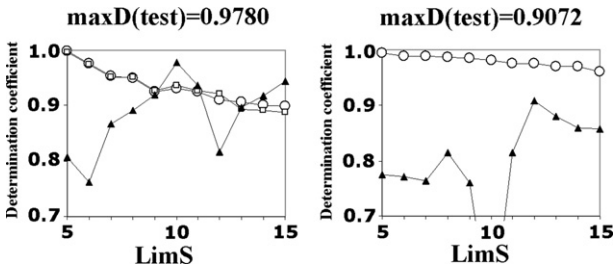


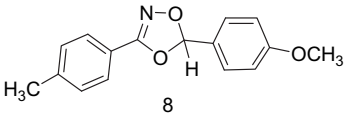


SHORT COMMUNICATIONS









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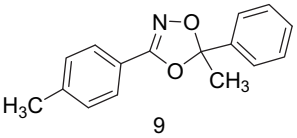

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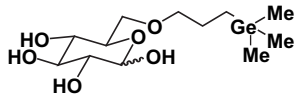

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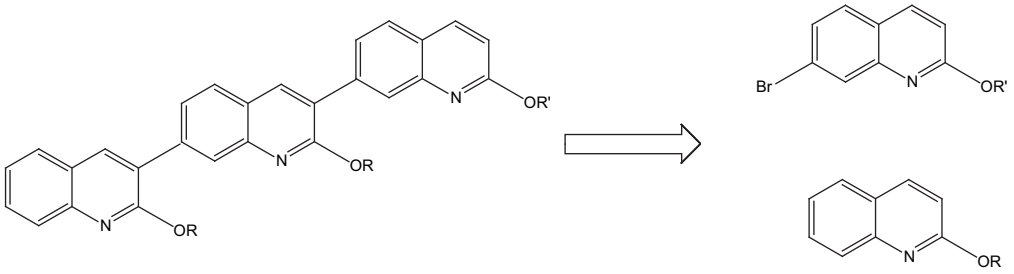
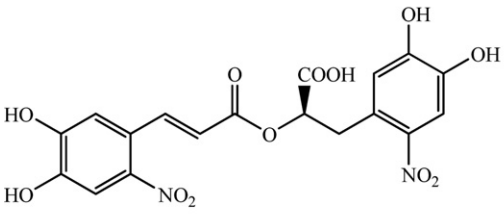
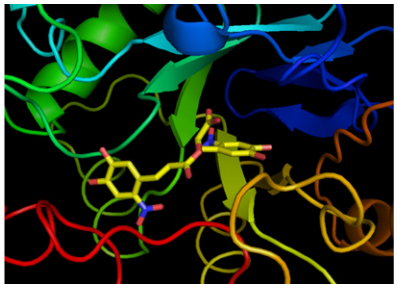
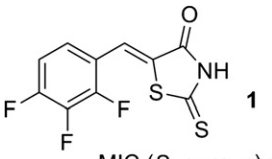


PRELIMINARY COMMUNICATIONS

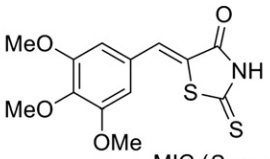






1

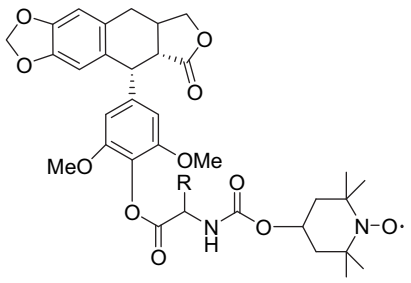
MIC (*S. aureus*) = 0.5 μg/mL
MIC (MRSA) = 32 μg/mL



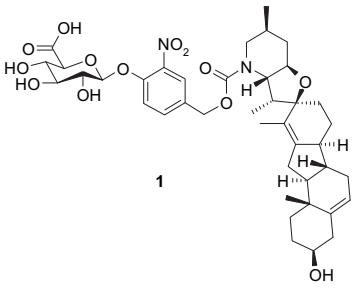
2

MIC (*S. aureus*) = 8 μg/mL
MIC (MRSA) = 128 μg/mL

The spin-labeled derivatives of deoxypodophyllotoxin **11a**–**h** were more potent cytotoxicities (HL-60, RPMI-8226 and A-549) and antioxidative activities than parent compound DPPT and anticancer drug VP-16.



The glucuronide prodrug **1** of the hedgehog signaling inhibitor cyclopamine was synthesized and evaluated as a potential selective antitumor agent for the treatment of glioblastoma.



1

COVER

Image of Antibacterial activities of urea and thiourea derivatives of 15-membered azalides in comparison to sulfonylurea analogs. 44/9, P3459-3470 by Mirjana Bukvić Krajačić, Predrag Novak, Miljenko Dumić, Mario Cindrić, Hana Čipčić Paljetak and Nedjeljko Kujundžić © 2009 Published by Elsevier Masson SAS

* Corresponding authors.

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