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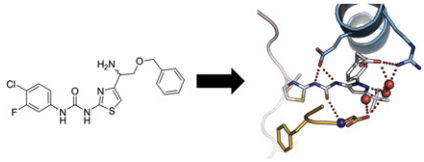
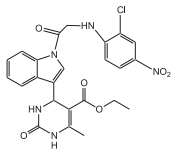
ORIGINAL ARTICLES





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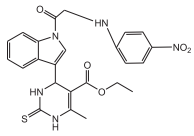

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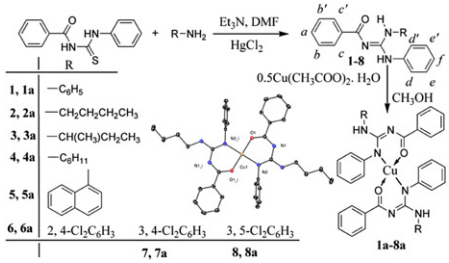
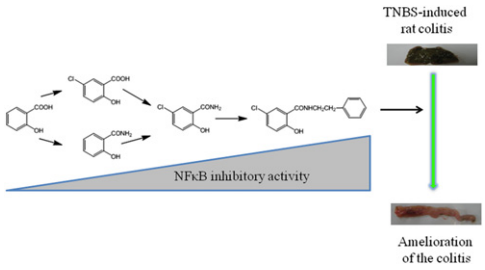
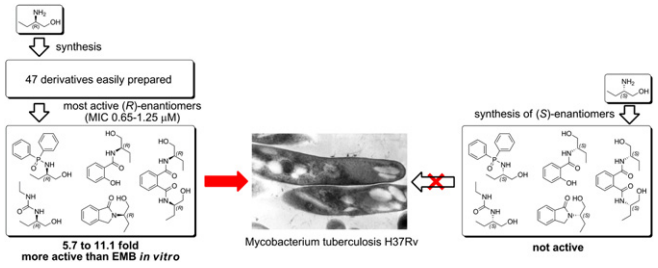
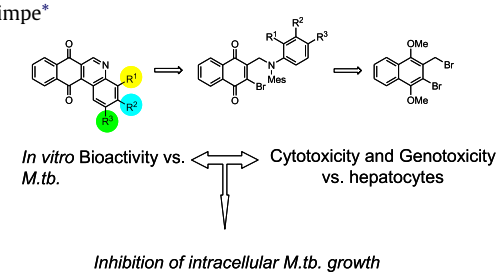
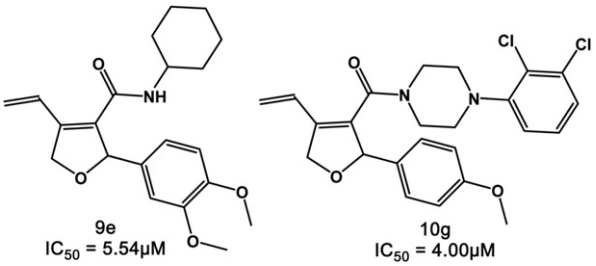
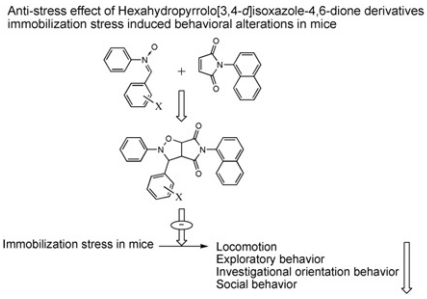


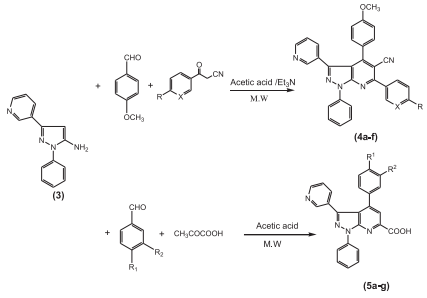


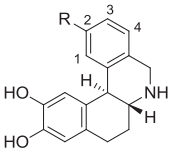




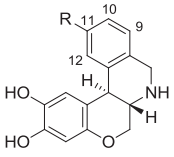




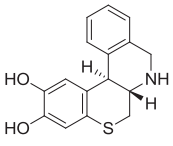




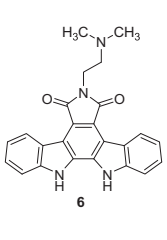
1 R = H, D_1 K_i = 6.2 nM
3 R = Me, D_1 K_i = 8.7 nM
4 R = Et, D_1 K_i = 29 nM



2 R = H, D_1 K_i = 26 nM
5a R = Me, D_1 K_i = 150 nM
5b R = Et, D_1 K_i = 185 nM



6 D_1 K_i = 200 nM



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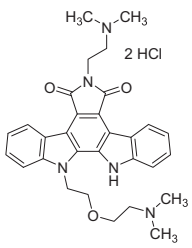

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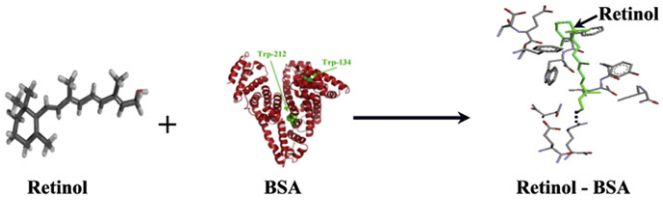
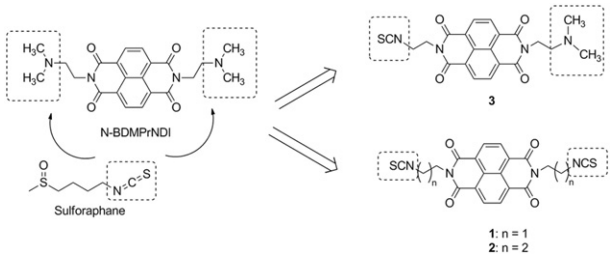
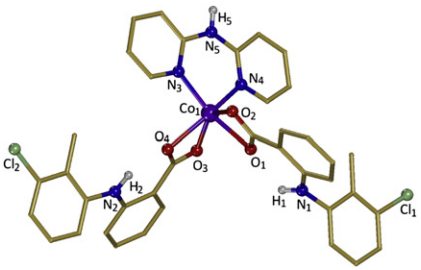
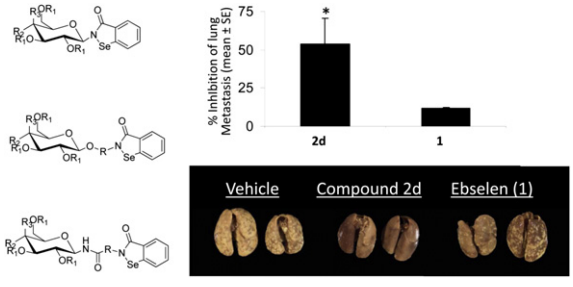


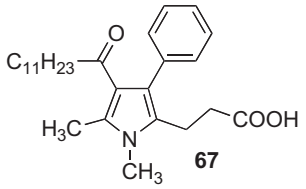


Interaction of cobalt(II) with the non-steroidal anti-inflammatory drug tolfenamic acid in the presence or absence of nitrogen-donor ligands leads to the formation of complexes that bind to DNA by intercalation and exhibit good binding propensity to serum albumin proteins.



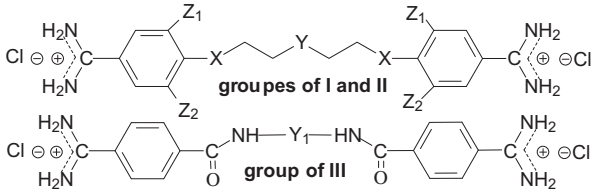
Novel benzisoselenazolone derivatives that possess significant anticancer activity *in vitro* and *in vivo*.



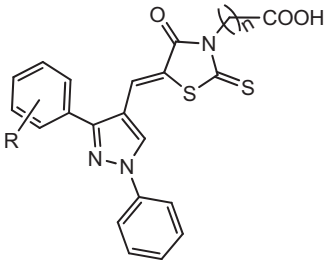


Inhibition of human recombinant mPGES-1
- in absence of Triton X-100: IC_{50} = 0.14 μM
- in presence of Triton X-100: not active at 10 μM

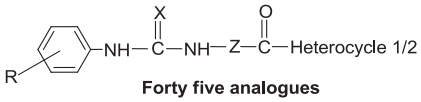
Pentamidine analogs were prepared and analyzed for efficacy against *Pneumocystis carinii*. In ATP bioassay they showed marked or moderate activity. Most of them had no cytotoxicity in mammalian cell cultures.



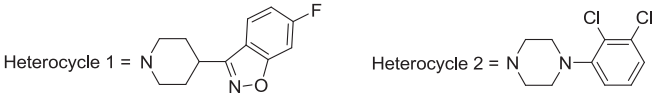
A series of 4-functionalized-pyrazoles were synthesized and evaluated for their antibacterial activity.

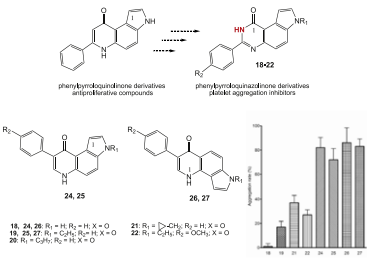


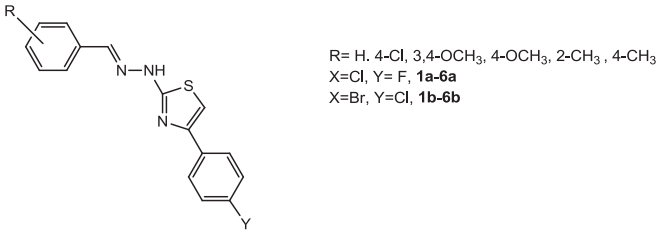
The title compounds were synthesized and evaluated for their possibility to arrest the growth of pathogenic bacteria and fungi. All the synthesized derivatives were potentially active.

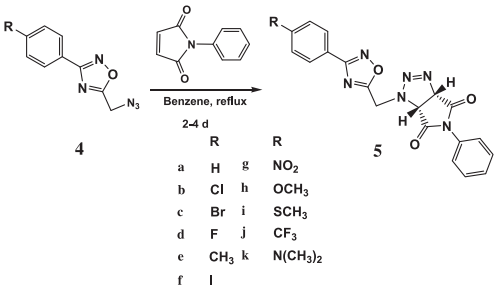


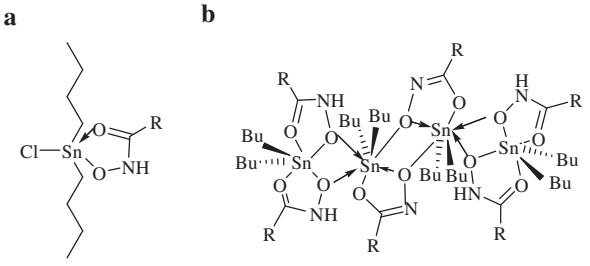
R = 2F, 4Cl, 4OMe; X = O, S; Z = Trp, GGIP, GGFP, GVGVP, GFGFP, GEGFPGVGVPGVGVPGVGVPGFGFPGFGFP, GEGFPGVGVPGVGFPGFGFPGVGVPGFGFP

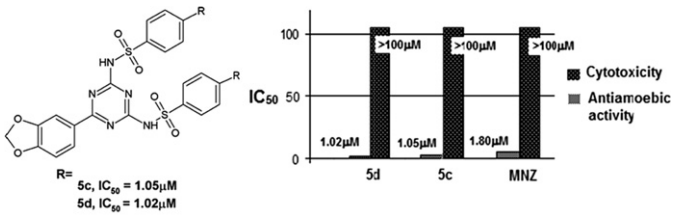




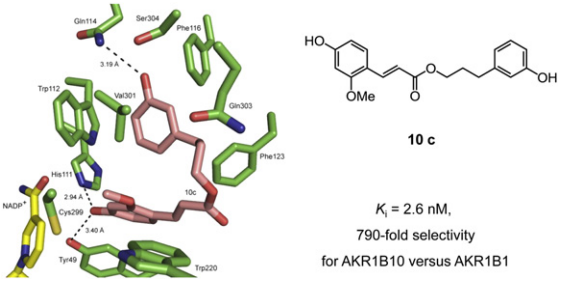


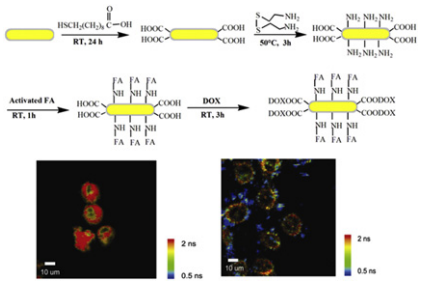




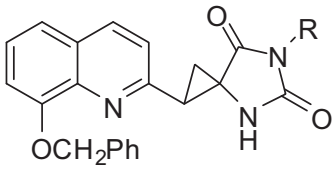


Two new compounds 5c and 5d were found as least cytotoxic and excellent *Entamoeba histolytica* inhibitors in a series of compounds synthesized and screened.





A series of 1-(8-(benzyloxy)quinolin-2-yl)-6-substituted-4,6-diazaspiro[2,4]heptanes-5,7-diones (**8a**–**p**) were synthesized. Their anticonvulsant activity was evaluated by MES and *sc*PTZ test, and their neurotoxicity was evaluated by the rotarod neurotoxicity test.



8a-p

SHORT COMMUNICATIONS

COVER

This picture is taken from the review published in: European Journal of Medicinal Chemistry, 2010, Volume 45, Pages 2095-2116. The review is focused on the binding of inhibitors to the catalytic site of histone deacetylase © 2010 Published by Elsevier Masson SAS

* Corresponding authors.

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