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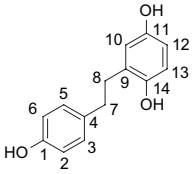
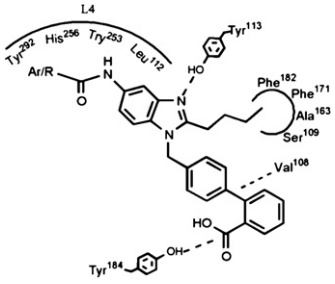
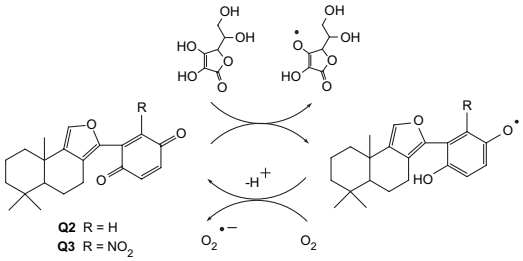
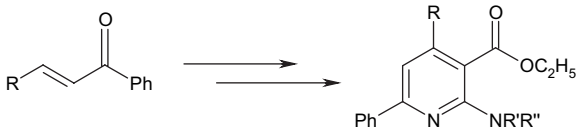
ORIGINAL ARTICLES

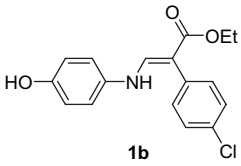


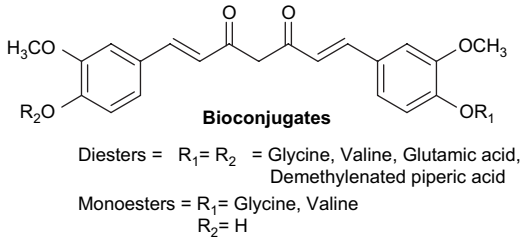
14-Hydroxylunularin

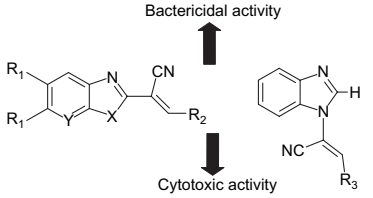




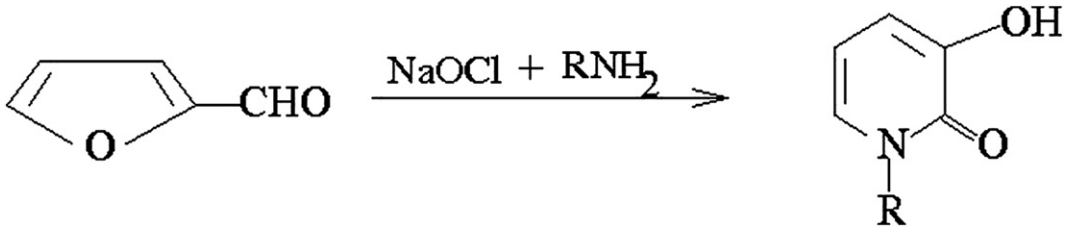




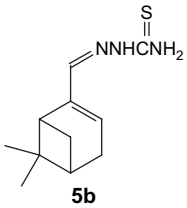




SHORT COMMUNICATIONS

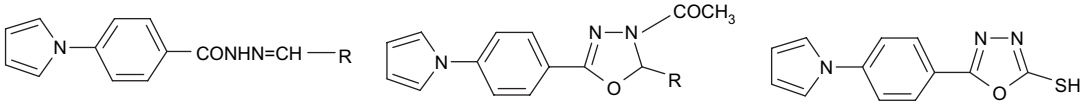


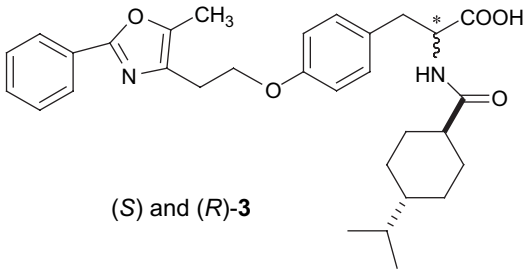
Semicarbazone and thiosemicarbazone derivatives were prepared and tested in vitro against a chloroquine resistant strain of *Plasmodium falciparum* (W2) to evaluate their antiplasmodial potential. The thiosemicarbazone **5b** was selected for in vivo tests on mice infected with *Plasmodium berghei* (strain NK-65). The in vitro and in vivo results make **5b** an interesting lead for further development.



5b

A series of 4-pyrrol-1-yl benzoic acid hydrazide analogs and some derived ring systems were synthesized. The structures of new compounds were established on the basis of their elemental analysis and IR, ^{1}H NMR, ^{13}C NMR and mass spectral data. All compounds were subjected to in vitro antibacterial testing against six pathogenic strains and antitubercular screening against *Mycobacterium tuberculosis*. Preliminary results indicate that some of them exhibited promising activities and they deserve more consideration as potential antibacterial and antitubercular agents.





(*S*) and (*R*)-**3**

COVER

Overlay of the experimental and docked conformations of the ligand fluorescein in complex with an antifluorescein 4-4-20 Fab fragment (PDB code 1flr, 1.85 Å). The top-scoring conformation (purple) selected by the HINT force field, among the 255 poses generated by AutoDock, nearly overlays the crystallographic structure (yellow), while the conformation selected by the AutoDock scoring function (green) reverses the positions of the carbonyl and hydroxyl groups.
Image provided by Francesca Spyrakis, Alessio Amadasi, Micaela Fornabaio, Donald J. Abraham, Andrea Mozzarelli, Glen E. Kellogg, Pietro Cozzini.

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