



Synthesis, Antimicrobial and Insilico Study of Quinoline based 1,2,4-Triazole Derivatives

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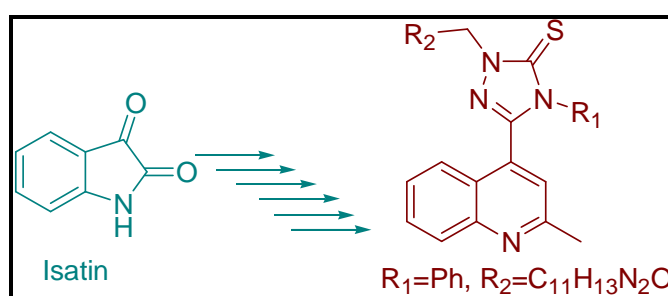
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ABSTRACT

A series of Quinoline based 1,2,4-Triazole derivatives have been synthesized and characterized using FT-IR, ¹H and ¹³C NMR spectroscopic techniques. Compounds were evaluated for their invitro antibacterial activity against selected Gram positive and Gram negative bacteria and antifungal activity against fungal pathogens by adopting broth dilution method of all the compounds **8c**, **8d** and **8h** show good antibacterial activity and **8c** showed good antifungal activity. Molecular docking studies were performed for these compounds to understand the ligand-receptor possible intermolecular interactions.

Graphical Abstract



Keywords: Quinoline, 1,2,4-Triazoles, Insilico study, Micro dilution assay, Antimicrobial activity.