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Synthesis and antimicrobial screening of 1, 2, 4 H-triazole derivatives

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Azoles are important five membered heterocyclic rings containing at least one nitrogen atom like Isoxazole, Thiazole, Pyrazole and Triazole. We concentrate on 1,2,4-Triazoles, which possess three nitrogen in five membered heterocyclic ring and shows various medicinal properties such as possible hypoglycemic activity, anti-microbial, anti-inflammatory, anti-convulsant anti-tubercular, anti-depressant, and anti-proliferative properties. 1, 2, 4-Triazole derivatives have received much attention due to their versatile biological properties. Hence efforts have been made to synthesis 5-(4 Hydroxyphenyl) 4H-1, 2, 4-triazole-3-thiol and its derivatives and evaluated them for their antimicrobial potential. Compounds 1_a, 1_c and 1_d were found potent against *S. aureus* and *E. coli* and compound 1 and 1c displayed better activity against pathogenic fungus *A. niger*.

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