Synthesis, Characterisation and Antimicrobial studies of 4, 6-Disubtuted phenyl - (5-substutied phenyl -1, 3, 4-thiadiazol-2-yl) -1, 4, 5, 6-tetrahydro pyrimidine-2-thiols

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Abstract: A new series of 4,6-disubtuted phenyl - (5-substituted phenyl -1,3,4-thiadiazol-2-yl)-1,4,5,6-tetrahydro pyrimidine 2-thiols were synthesized by the condensation of 1-(5-substituted phenyl -1,3,4-thidiazole-2-y1)thiourea and substituted chalcones. The structures of the new compounds have been established by spectral and analytical data. Some of the compounds were screened for their antibacterial and antifungal activity. A few compounds showed potent activity comparable with that of the standard drugs.
Keywords: Antibacterial activity, antifungal activity, pyrimidine-2-thiols, thiourea and chalcones.

DOI= http://dx.doi.org/10.20902/IJCTR.2018.111114

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