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

Dayananda P¹, Janardhana Nayak^{2*}, Ramesha Bhat² and Vineetha Telma D'Souza³

¹Department of Chemistry, Excellent Science and Commerce P.U. College, Moodbidri, Mangaluru, India

²Department of Chemistry, N.M.A.M. Institute of Technology, Nitte-574 110, Udupi District. (Affiliated VTU, Belagavi), India

³Department of Chemistry, M.I.T.E., Moodbidri-574 225 (Affiliated VTU, Belagavi), India

Abstract : A new series of 4,6-disubstituted 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-thiadiazole-2-yl)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.

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