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SYNTHESIS AND BIOLOGICAL ACTIVITIES OF 3,6-DISUBSTITUTED-1,2,4-TRIAZOLO, (3,4-B) - 1,3,4-THIADIAZOLES

Awanish K. Pandey, Shailendra C. Singh, Richa Trivedi and Arjun Kunwar

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ABSTRACT : 4-amino-5aryl/Heteroaryl substituted-3-mercapto-1,2,4-Triazoles, were prepared from the corresponding aromatic carboxylic acid through a multistep sequence. These Triazoles were made to react with various aromatic acids to yield 3, 6-disubstituted-1,2,4-triazole [3,4-b]-1,3,4, thiadiazoles. Elemental analysis IR, ¹H NMR and mass spectral data elucidated the structures of all newly synthesized compounds showed significant pharmacological activities and were found to be highly active against various fungi and bacteria.

Key Words: Triazoles, Triazolo thiadiazoles and Pharmacological activities.