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Synthesis, Characterization and Biological Activities of 1,2,3-Triazole Containing Substituted Cyclohexenones

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ABSTRACT

*A novel series of Cyclohexenones carrying 1, 2, 3-Triazole core at 4th position and aryl group at 6th position **(5a-l)** have been synthesized starting from 4-Nitroaniline **(1)** in four steps. The structures of these newly synthesized compounds were elucidated by elemental analysis, 1H NMR and mass spectral data. Also these compounds were evaluated for their antibacterial activity against Pseudomonas, Staphylococcus aureus, Enterococcus, Escherichia coli, antifungal activity against Candida albicans and antioxidant activity by DPPH radical scavenging assay method. Compounds 5c, 5e, 5f, 5g, 5h, 5j and 5f showed activity comparable or higher than that of BHA.*

Keywords: Robinsons Annulation, 1, 2, 3-Triazole derivatives, Antibacterial, Antifungal, Antioxidant activity.