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Synthesis, Characterization of Some Novel Substituted Arylated Derivatives

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ABSTRACT

Several substituted arylated N-(2-(2-benzylidine hydrazinyl)-4H-1,2,4-triazol-4-amine and 1-(2-(4H-1,2,4-triazol-4-yl) amino)-3-chloro-4-phenyl azetidin-2-one have been synthesized by the appropriate methods and evaluated for their antibacterial and antifungal activity against Escherichia coli, Shigella dysenteriae, Streptococcus aureus and salmonella typhimurium, antifungal activity against A. niger (An), A. flavus (Af), F. oxisporium (Fo) and T. viride (Tv) and antiinflammatory activity against the carrageenan induced rat paw oedema method in albino rats. In the primary screening some of the products display acceptable biological activity. The structure of the synthesized compound has been established on the basis of their spectral and micro analytical data.

Keywords: synthesis, triazole derivatives, biological activity.