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Larvicidal activity of 1,3,4- oxadiazole analogues and their Molecular Docking **Studies**

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A new series of 2-(5-bromo-2-(trifluoromethoxy)phenyl)-5-aryl-1,3,4-oxadiazole 4a-4h compounds (aryl = C 6 H 5 , p-CIC 6 H 4 , p-NO 2 C 6 H 4 , C 5 H 4 N, p-OCH 3 C 6 H 4 , p-BrC 6 H 4 , p-OHC 6 H 4 , p-CH 3 OC 6 H 4) were synthesiazed by recting acid hydrazide with 5-bromo-2-(trifluoromethoxy) benzoic acid in POCI 3 . The new synthetic approach concluded with good results. The structure of synthesized Oxadiazole derivatives have been confirmed by Fourier transform infrared spectroscopy, Proton nuclear magnetic resonance and Carbon-13 NMR spectroscopy. The intention of this study to evaluate strong larvacidal activity of synthesized compounds towards Culex quinquefasciatus mosquitoes. The outcomes indicated that larvacidal activity SYNTHESIZEDOXADIAZOLE of the synthesized compounds due to the existence of groups in the phenyl ring present of oxadiazole derivatives.

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LINTRODUCTION

Mosquitoes are routes for a enormous number of infections especially in the tropics which includes fliariasis transmitted by Culexquinquefasciatus, Anopheles gambiae causes malaria and Aedes aegypti reasons for dengue fever and yellow fever [1]-

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