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Synthesis of Quinazolin-4(3H) Ones From Pyridine Based Chalcone By Conventional Method And Their Antimicrobial Studies *In Vitro*

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ABSTRACT

*Quinazolin-4(3H) ones **6a-j** was synthesized by the cyclization of pyridine based chalcones 5**a-j** with hydrazine hydrate. The overall reaction was multistep base catalyzed cyclization of acid chloride **1** with 3:5-dibromo anthranilic acid yielded benzoxazinone **2**, which on reaction with hydrazine hydrate to afforded amino quinazolin-4(3H) one **3**. The structural confirmation of the synthesized compounds was carried out on the basis of elemental analysis, IR, ^{1}H NMR and ^{13}C NMR spectra results. The title compounds were screened for antimicrobial activity in vitro.*

Keywords: Antimicrobial activity, Chalcone, Quinazolin-4(3H) one, Pyrazole.