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Studies on Synthesis and Antimicrobial Activity of Quinoline Pyrimidine Derivatives

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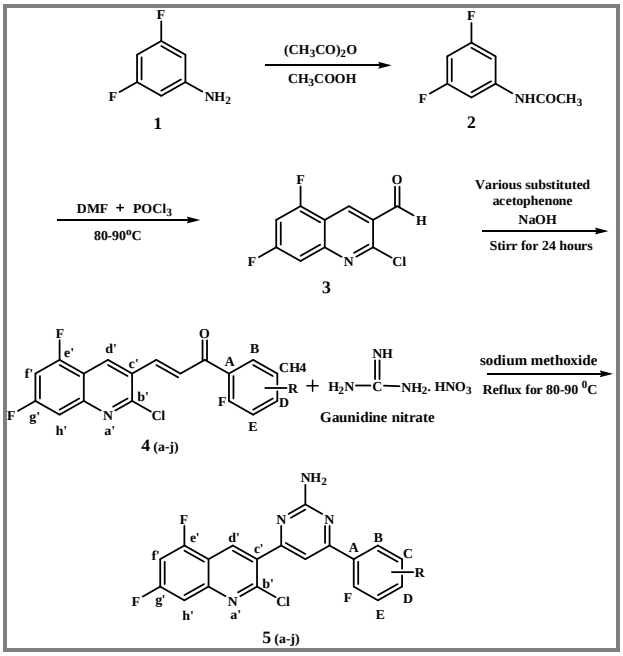
ABSTRACT

A series of various substituted pyrimidine derivatives has been synthesized by reacting chalcones with guanidine nitrate in presence of sodium methoxide in methanol. The structure of newly synthesized heterocycles was confirmed by their elemental analysis, IR spectra and ^{1}H NMR spectra. They were subjected to biological studies.

Graphical Abstract



Where, **R** = 4-Cl, 4-Br, 4-OCH_3, 4-NH_2, 3-F, 3-OCH_3, 2,4-di F, 2,4-di Cl 5-F,2,4-di F 5-Cl,2,4,5- tri Cl.

Keywords: Quinoline chalcones, pyrimidine derivatives, antibacterial and antifungal activity.