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Synthesis and Antimicrobial Evaluation of Pyrrole Based New Heterocycles

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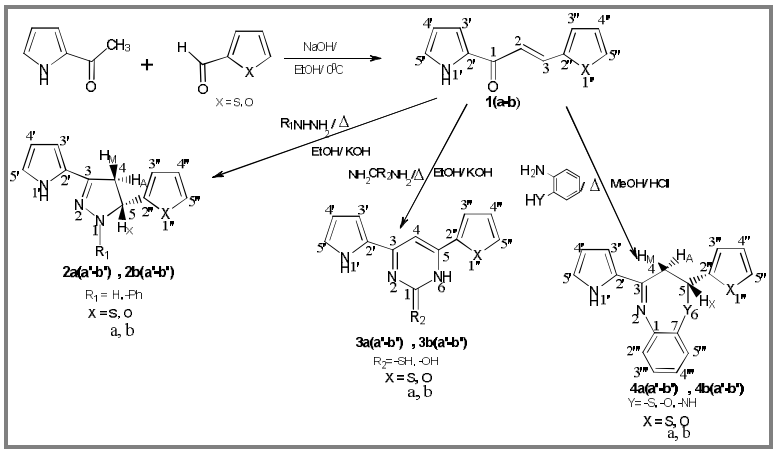
ABSTRACT

In the present research work, we have investigated the synthesis of five, six and seven membered heterocycles. These have been realized from the cyclization of the Chalcones with suitable cyclizing agents. The intermediate chalcone were obtained from the condensation reaction of acetyl pyrrole with thiophene carboxaldehyde/furfaldehyde. The antimicrobial and antioxidant properties of the newly prepared compounds evaluated and many of these products could exhibit significant antimicrobial and antioxidant behavior.

Graphical Abstract



Keywords: Pyrazolines, Pyrimidines, Benzoazepines, Antimicrobial and Antioxidant properties.