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Synthesis of Some Novel Pyrazolines Containing Pyrazole Moiety

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Abstract:To synthesize pyrazolines containing pyrazole moiety, a simple, efficient and green procedure was used. When acrolein, and α , β - enone reacted with phenylhydrazine provided the simple pyrazoline formation via Cyclization. This method has the advantages of operational simplicity, and high yield of products via a simple experimental and work-up procedure. Further the structures of pyrazoline derivatives were confirmed on the basis of spectral data. The compounds were screened for their in vitro antibacterial activity using Gram - positive and Gram - negative bacteria.

Keywords:Chalcone, Pyrazoline, Novel, spectral data, antibacterial activity.

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