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An Efficient Synthesis of Pyrazole Carboxamide Derivatives and in Vitro Evaluation for their Antimicrobial Activity

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Abstract : An efficient procedure for the synthesis of pyrazole carboxamides via Claisen-Schmidt reaction was developed. An acid catalysed reaction of chalcones and semicarbazide hydrochloride produced pyrazole carboxamides in good yields. The synthesized new compounds were characterized by spectral studies and elemental analysis; and were screened *in vitro* for their antimicrobial susceptibilities against different bacteria and fungi species.

Key words: Antibacterial, antifungal, condensation, inhibition, pyrazoline, spectral.

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