

ABSTRACT FOR POSTER PRESENTATION

MICROWAVE-ASSISTED SYNTHESIS OF 2-(1-PHENYL-5-(TETRAZOLO[1,5-*a*]QUINOLIN-4-YL)-4,5-DIHYDRO-1*H*-PYRAZOL-3-YL) SUBSTITUTED PHENOLS AND EVALUATION OF THEIR ANTIMICROBIAL ACTIVITY

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Abstract: A series of novel 2-(1-phenyl-5-(tetrazolo[1,5-*a*]quinolin-4-yl)-4,5-dihydro-1*H*-pyrazol-3-yl) substituted phenols have been synthesized by Michael addition of (*E*)-1-(2-hydroxyphenyl)-3-(tetrazolo[1,5-*a*]quinolin-4-yl)prop-2-en-1-ones with phenyl hydrazine hydrate in presence of sodium acetate under conventional heating and microwave irradiation. Structures of the newly synthesized pyrazolines have been established on the basis of IR, ¹H & ¹³C NMR and mass spectral data. All the compounds synthesized were screened for antimicrobial activity and some of the compounds exhibited promising biological activity.

Keywords: Pyrazoline; Tetrazolo[1,5-*a*]quinoline; Michael addition; Microwave irradiation; Antimicrobial