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Synthesis, Characterization and Antimicrobial Screening of Some Novel *N*-Substituted-2-Pyrazolines, Derived from Chalcones

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Abstract: A new series of (3-(2,4-dichlorophenyl)-5-methylisoxazol-4-yl)(3-(4-substituted phenyl)-5-(6-methoxynaphthalen-1-yl)-4,5-dihydro-1H-pyrazol-1-yl)methanone (**6a-g**) and (3-(4-fluorophenyl)-5-(6-methoxy naphthalen-1-yl)-4,5-dihydro-1H-pyrazol-1-yl)(pyridin-4-yl)methanone (**7a-g**) were synthesized by reacting 3-(6-methoxynaphthalen-1-yl)-1-(4-methoxyphenyl)prop-2-en-1-one (Chalcone) (**3a-g**) with hydrazine hydrate followed by 3-(2,4-dichlorophenyl)-5-methylisoxazole-4-carbonyl chloride (**5**) and isonicotinohydrazide respectively. All these compounds were characterized by means of their IR, ¹H NMR, mass and elemental analysis. All the synthesized products were evaluated for their antimicrobial activity. All the compounds exhibited significant to moderate antimicrobial activity.

Keywords: Chalcone, *N*-substituted-2-Pyrazoline, isonicotinohydrazide, Antibacterial, Antifungal activity.

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