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Screening of antimicrobial and anti-oxidant activity of newly synthesized 1- (4- (9- bromo- 6H- indolo [2, 3-b] quinoxalin- 6- yl)- 3- oxobutanoyl)- 3 - substituted- 4, 5- dihydro- 1H- pyrazole- 4- carbaldehyde derivatives of Quinoxaline

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ABSTRACT

The Quinoxaline derivatives 1- (4- (9- bromo -6H- indolo [2,3-b] quinoxalin -6- yl)-3-oxobutanoyl) -3- substituted -4, 5- dihydro -1H- pyrazole -4- carbaldehyde (QND 1 to QND 5) were synthesized from different substituted Benzene derivatives. All the compounds were structurally elucidated with physical and analytical methods and evaluated with anti-microbial activity against a variety of bacterial strains and fungal strains and anti-oxidant activity using nitric oxide scavenging radical method and super oxide scavenging radical method. Some of these compounds have shown significant antibacterial and antifungal activities. Majority of quinoxaline derivatives when tested invitro for antioxidant activity showed recognizing activity.

Keywords: Quinoxaline derivatives, antimicrobial activity, antioxidant activity.
