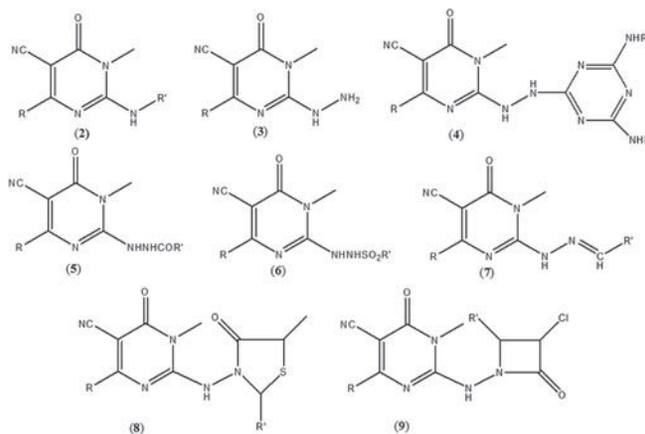


## Synthesis and Characterization of Derivatives of Pyrimidine-5-carbonitrile and Their Biological Screening

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**ABSTRACT** Some new 2-(substituted)-4-(4-fluorophenyl)-1,6-dihydro-1-methyl-6-oxopyrimidine-5-carbonitriles (**2-9**) have been prepared by condensation of 4-(4-fluorophenyl)-1,6-dihydro-1-methyl-2-(methylthio)-6-oxopyrimidine-5-carbonitrile with different pharmacologically active species. All the synthesized compounds were tested for their antibiotic activities against different Gram-positive and Gram-negative bacteria at Worldwide Antimicrobial Discovery Initiative, University of Queensland, Brisbane, Australia.



**KEYWORDS** Biological screening, Derivatives of 1-Methyl-6-oxo pyrimidine-5-carbonitrile, Pharmacophores, Pyrimidinones.