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V. Lakshmi Ranganatha , T. Prashanth , H. B. Vasanth Patil ,  
D.G. Bhadregowda , C. Mallikarjunaswamy

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## Synthesis and biological activity of 5-bromo-2-chloropyrimidin-4-amine derivatives

V. Lakshmi Ranganatha<sup>a</sup>, T. Prashanth<sup>b</sup>, H. B. Vasanth Patil<sup>c</sup>, D.G. Bhadregowda<sup>d</sup>,  
C. Mallikarjunaswamy<sup>\*b</sup>,

<sup>a</sup>Department of Chemistry, The National Institute of Engineering, Manandavadi Road, Mysuru – 570008, India

<sup>b</sup>PG Department of Chemistry, JSS College of Arts, Commerce and Science, Ooty Road, Mysuru-570025, India

<sup>c</sup>PG Department of Biotechnology, JSS College of Arts, Commerce and Science, Ooty Road, Mysuru-570025, India

<sup>d</sup>Department of Chemistry, Yuvaraja's College, University of Mysore, Mysuru-570005, India

\*Correspondence author Address

Dr. Mallikarjunaswamy C

PG Department of Chemistry,

JSS College of Arts, Commerce and Science

Ooty Road, Mysuru-570025, India

Email: [mallik.aanekere@gmail.com](mailto:mallik.aanekere@gmail.com)

### Abstract

A series of novel 5-bromo-2-chloropyrimidin-4-amine derivatives (**7a-h** and **8a-e**) were synthesized by nucleophilic substitution reaction with various sulfonyl and acid chlorides. The newly synthesized compounds were characterized by elemental analyses, FT-IR, <sup>1</sup>H NMR and LC-MS spectral studies. All compounds were evaluated for its *in vitro* antibacterial and antifungal activities. The Compound *N*-(5-bromo-2-chloro-pyrimidin-4-yl)-4-methyl-benzenesulfonamide (**7b**) exhibited significant antimicrobial activity against tested pathogenic bacterial and fungal strains.

### Key words

Antimicrobial activity, Pyrimidine, sulfonyl chlorides

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