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Antimicrobial studies of arylidene acetophenone derivatives from Benzimidazoles

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The present study was designed to synthesis different arylidene acetophenone derivatives (chalcones) of benzimidazole using *o*-phenylene diamine and lactic acid as the starting materials. Synthesized compounds were subjected to both antibacterial studies with *Staphylococcus aureus* NCIM 2079, *Bacillus subtilis* NCIM 2439, *Escherichia coli* NCIM 2118 and *Pseudomonas aeruginosa* NCIM 5029 and antifungal studies with *Candida albicans* and *Aspergillus niger*. The results indicated that the synthesized compounds S1, S2 and S3 showed considerable antibacterial and antifungal activities. This study suggested that the compound S3 can be identified as antimicrobial molecule.

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