Click Chemistry Approach: Regioselective One-pot Synthesis of Some New 8-Trifluoromethylquinoline Based 1,2,3-Triazoles as Potent Antimicrobial Agents

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ABSTRACT

Three series of 8-trifluoromethylquinoline based 1,2,3-triazoles derivatives (**5a–c**, **6a–d**and **7a–c**) were synthesized by multi-step reactions by click chemistry approach. Synthesized compounds were characterized by spectral studies and X-ray analysis. The final compounds were screened for their *in-vitro* antimicrobial activity by well plate method (zone of inhibition).

Compounds **5c**, **6b**, **8b**, **11** and **12** were found to be active against tested microbial strains. The results are summarized in Tables 5 and 6.

KEYWORDS: 8-Trifluoromethylquinoline; 1,2,3-Triazole; Click chemistry; Suzuki coupling; Antimicrobial activity

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