

Poster Presentation

Synthesis And Biological Activities of Curcumin Based Heterocyclics

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Abstract

A number of curcumin based heterocyclic derivatives pyrazoles, isoxazoles, and diazepine have been synthesized and evaluated for their antibacterial activities. The chemical structures of the newly synthesized compounds were verified on the basis of spectral and elemental methods of analyses. Investigation of antimicrobial activity of the compounds was done by disc diffusion method using Gram-positive (*S. aureus*) and Gram-negative (*E. coli* and *P. aeruginosa*) bacteria. All prepared compounds exhibited good antibacterial activities against Gram positive bacteria. Among all tested compounds, derivative 4 exhibited appreciable activity against Gram positive bacteria comparable to reference drugs.