

Cholesterol derivatives as antimicrobial agents

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Pathogen infections have threatened human's health for thousands years. During past decades, with the abuse of antimicrobial agents, more and more drug-resistant pathogens were found. Among them, methicillin-resistant *Staphylococcus aureus* (MRSA) is a prominent pathogen, which causes a public health concern worldwide and associates with a high mortality. Novel antimicrobial agents against MRSA have been introduced recently. However, the emergency of resistance and side effects for those agents raise the need for novel antimicrobial agents. In this work, a series of Cholesterol derivatives were checked for their antimicrobial activity, insilico metabolism, toxicity prediction, exploration of new therapeutic potential, QSAR modeling of rat acute toxicity.

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