

Special Issue

Frontiers in Antimicrobial Drug Discovery and Design

Message from the Guest Editors

Infectious diseases still account for a substantial proportion of deaths worldwide. The plague of antimicrobial resistance represents an alarming signal for both human and animal healthcare. There is of great interest in the opportunities and challenges associated with tackling infectious diseases for developing effective and possibly cheap antimicrobial agents endowed with new mechanisms of action. The discovery of new antimicrobials as well as the expansion of existing antibiotics utility would be crucial to fight the ever-increasing antimicrobial resistance of “superbugs”, pathogenic fungi, viruses, and parasites. This Special Issue aims to highlight the recent medicinal chemistry research on new antimicrobial drugs.

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Deadline for manuscript submissions

closed (10 April 2017)



Molecules

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CiteScore 8.6
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As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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