



Antimicrobial Peptides: A New Hope in the War against Multi-Drug Resistance

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Large amounts of antibiotics used for human therapy and farm animals have resulted in the selection of pathogenic bacteria resistant to multiple drugs. There is an increasing prevalence of multi-drug resistance (MDR) bacteria globally, which are exceedingly difficult to treat and which constitute a growing health problem. Thus, there is a tremendous interest in developing novel agents as alternative approaches for treating MDR pathogen infections. Antimicrobial peptides (AMPs), also known as host defense peptides, are natural or synthetic peptides with potent antimicrobial activity against diverse microorganisms, particularly MDR bacterial pathogens. Due to broad spectrum activity, rapid killing rate, and low drug resistance potential, some AMPs have been proposed to be a promising alternative for the treatment of infections caused by antibiotic-resistant pathogens. This Special Issue seeks manuscript submissions that further our understanding of AMPs. Submissions on design, expression, structure, antimicrobial activity, mechanism of AMPs which are used to reduce transmission of MDR pathogens are especially encouraged.





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Editor-in-Chief

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Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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