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Antimicrobial Peptides - Discovery, Structure, Function, and Application

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Message from the Guest Editors

Antimicrobial peptides (AMPs) are emerging as promising antibiotic agents due to their remarkable broad-spectrum antibacterial properties and lower probability of bacterial resistance development. To date, more than 3000 AMPs have been discovered from nature, and many more chemically modified synthetic peptides with improved biological activities have been developed. Nevertheless, the successful translational applications of AMPs are very limited. On the one hand, our incomplete understanding of how these peptides work hinders their development into therapeutics. On the other hand, the relatively high production costs, short half-life, low bioavailability, and potential toxic side effects of AMPs compared to conventional small molecule drugs make them less attractive to study through the established drug discovery pipeline.

In this Special Issue, we aim to collect and disseminate the latest experimental and computational works on the discovery and characterization of AMPs, in terms of their structures, functions and potential applications. Manuscripts from original research and review articles are invited.

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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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