



Antimicrobial Peptides: An Emerging Hope in the Era of New Infections and Resistance

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Message from the Guest Editors

In this Special Issue, authors are invited to submit original research papers, review articles, short communications, case series, and opinion papers related to but not limited to the following specific areas of research:

1. Screening, purification, and characterization of novel AMPs;
2. Genome mining and comparative analysis of AMP-producing biosynthetic gene clusters;
3. Cloning and heterologous expression of novel AMPs;
4. Structural characterization and design of new AMPs with potential therapeutic activities;
5. Strategies to understand the mechanisms of AMPs;
6. Standardization of AMPs biological activities against various pathogens such as bacteria, fungi, viruses, and parasites, as well as chronic diseases like cancer and cystic fibrosis;
7. Immunomodulatory properties of AMPs and potential therapeutic applications;
8. Role of AMPs in human diseases;
9. Combination therapies of AMPs with conventional antibiotics;
10. Comparative genomics and evolutionary studies of AMPs;
11. Evolution and resistance development against AMPs;
12. Artificial intelligence and development of novel AMPs.





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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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