



Antimicrobial Peptides and Proteins: A Potential Approach to Treat and Combat Antimicrobial Resistance

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Message from the Guest Editors

Antimicrobial peptides and proteins (AMPs), also known as Host defense peptides and proteins (HDPs), are the most promising candidates for alternative therapeutics to combat AMR since they are ancient components of the innate immune system. They are present in many organisms and are endowed with unique structural properties that allow not only the permeation and disruption of the target membranes but also the stimulation of the immune response. AMPs/HDPs have a wide range of inhibitory effects against bacteria, fungi, parasites, and viruses but have the advantages of limiting the induction and development of resistance mechanisms. Interestingly, during the last few years, research into new natural antimicrobial agents has been flanked by the rational design of new synthetic molecules inspired by natural agents and by the identification of novel bioactive sequences hidden in larger proteins, called cryptides.

We therefore invite academic investigators working in these fields to submit original research articles or reviews describing and discussing the most recent advancements and developments in basic science and biomedical applications.





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