

Antimicrobial Peptides †

A. C. Vaani ¹, S. Hemalatha ^{1,*}

¹ School of Life Sciences, B.S.Abdur Rahman Crescent Institute of Science & Technology, Chennai, India

* Correspondence: hemalatha.sls@crescent.education;

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Abstract: Higher species, such as humans, face severe threats from microbes in this complicated environment, appreciable by the ongoing COVID 19 pandemic. Evolving microbes contribute an important factor to it. Mostly infections and outbreaks are caused by viruses and bacteria and are most prevailing. Biofilm infections, including wound infections, skin infections, and bacterial resistance, are increasing day by day, and antimicrobial resistance poses most bacterial infections. Viral infections range from the common acute cold to chronic Ebola. These mutating microbes make it difficult to find medicines and cures. Numerous studies are carried out to discover an option for valuable antibiotic resistance therapy. Antimicrobial peptides (AMPs) discovery came into prominence to find possible therapeutics. AMPs are present in almost all life forms. They are used for treating microbial infections to cancer, cardiac diseases, etc. This extensive elasticity of AMPs is typically due to their diverse property. They have a therapeutic effect and are immunomodulators that make them even more effective as anti-infectives without any side effects. Thus, this review aims to present an understanding of antimicrobial peptides and percept their role in treating bacterial and viral infections.

Keywords: antimicrobial peptides; viral infections; bacterial infections; review; COVID 19; immunomodulators; evolving; mutating.

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Conflicts of Interest

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