



State of the Art and Perspectives in Antimicrobial Peptides

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Message from the Guest Editor

Antimicrobial peptides (AMPs), a class of small peptides that widely exist in nature and contribute to an organism's defenses, have attracted researchers' attention. Perspectives and applications are numerous and cover different fields. Although peptides present some weaknesses in membrane impermeability and poor stability in vivo, due to the intrinsic limitations of amino acids, extensive research has been carried out in terms of the discovery and optimization of peptide drugs in order to overcome these drawbacks. The use of chemical modification and integration of traditional lead peptide discovery methods with novel technologies, such as rational design models, provides a reliable approach for the development of effective and selective lead peptides in a short period of time. Moreover, the design of peptide-based nano-systems opens the door to new and important scenarios.





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