



Molecular Advances in Biotechnological Approaches to Developing Effective Antimicrobial Agents

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Message from the Guest Editor

Dear Colleagues,

Both antimicrobial peptides and IgY antibodies represent fascinating fields of study in biotechnology, offering promising avenues for the development of novel antimicrobial treatments and immunotherapies. In the context of antimicrobial applications, IgY antibodies have been explored as a potential defense against infectious agents. Researchers have successfully developed specific IgY antibodies targeting various pathogens, including bacteria and viruses for use in passive immunization strategies. These approaches offer an alternative to conventional antibiotics and can be particularly useful in scenarios where antibiotic resistance poses a significant challenge.

This Special Issue aims to provide recent insights and potential applications for developing innovative and effective antimicrobial strategies and on the challenges faced in translating these discoveries into clinically viable treatments. The topics covered range from the discovery and design of novel antimicrobial peptides to the engineering and optimization of IgY antibodies for combating infectious diseases.





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Message from the Editor-in-Chief

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