Special Issue

Antimicrobial Peptides in Agriculture and Food Safety

Message from the Guest Editor

The rising prevalence of resistant bacterial strains poses a critical threat to both human and animal health, and finding new antibacterial agents is imperative. Antimicrobial peptides (AMPs) are small peptides that exist naturally as an important component of the innate immune system in various organisms. Notably, the AMPs possess antibacterial activity towards a wide spectrum of pathogens, showcasing their potential applications in diverse fields, including agriculture and food safety. This research topic aims to explore innovative AMP-based approaches for the development of novel and effective antimicrobial agents. Primary objectives include Al-based discovery and design of AMPs, biotechnological production and optimization, elucidation of their mechanisms of action, development of efficient delivery systems, and identification of potential application scenarios. Additionally, the research will emphasize translational efforts, particularly in terms of safety, efficacy, stability and costeffectiveness, to promote these AMPs into practical applications. To gain further insight into the AMPs in agriculture and food safety, we invite you to join us in this Special Issue.

Guest Editor

Prof. Dr. Da Teng

Institute of Feed Research, Chinese Academy of Agricultural Sciences, Beijing, China

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Antibiotics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antibiotics@mdpi.com

mdpi.com/journal/ antibiotics





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About the Journal

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.

Editor-in-Chief

Prof. Dr. Nicholas Dixon

School of Chemistry and Molecular Bioscience, University of Wollongong, Wollongong, NSW 2522, Australia

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