Special Issue

Antimicrobial Peptides: Synthesis, Properties and Applications

Message from the Guest Editors

The urgency of finding new antimicrobial drugs is obvious if we consider the 10 million premature deaths estimated by 2050 due to antibiotic resistances (AMR) [O'Neill, J. 2014]. Antimicrobial peptides (AMPs) have appeared as an alternative to the commonly used antibiotics due to their antimicrobial, antifungal, and antiviral activities. Widening the knowledge in this field could have a big impact on the AMR issue. The aim of this Special Issue is to gather scientific articles (research articles, review articles, as well as short communications) related to:

- New natural AMPs with special properties (e.g. immunomodulatory properties, prevention of the biofilm formation, prevention of post-surgical adhesion);
- AMPs designed using knowledge of natural AMPs (structure-based, AMP libraries, selective AMPs);
- Mechanisms of action of AMPs (molecular targets of AMPs, mechanism of membrane disruption);
- Potential clinical applications of AMPs.

Guest Editors

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Deadline for manuscript submissions

closed (25 May 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/65405

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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