Special Issue

Antimicrobial Peptides Aka Host Defense Peptides – from Basic Research to Therapy

Message from the Guest Editor

All wounds are at risk of becoming contaminated by pathogens, which could lead to infection. The ability to effectively overcome this danger is of evolutionary significance to our survival. It is therefore not surprising that multiple host defense systems, such as host defense peptides, have evolved. Antimicrobial peptides, aka host-defense peptides (HDPs), display activity against bacteria, fungi, viruses, and parasites. Today we have clear evidence that HDPs have far more than broad-spectrum antimicrobial activity, including immunomodulatory effects, wound healing, LPS neutralization, chemotaxis, or anti-cancer effects. Moreover, the multifunctionality of HDPs puts a lot of interest in the development of new therapeutic strategies against infectious diseases. This Special Issue will address the most current and innovative developments in the field of HDPs research with a range of topics such as structure and function analysis, modes of action, anti-microbial effects, cell and animal model systems, the discovery of novel host defense peptides, and drug development.

- antimicrobial peptides
- host defense peptides
- innate immunity
- wound healing

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access iournal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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