

Special Issue

New Insight and Applications of Multifunction Antimicrobial Peptides

Message from the Guest Editor

Antimicrobial peptides (AMPs), or host defense peptides (HDPs), are produced by all living organisms. The main target of these peptides is the cytoplasmic membrane; however, DNA, cell wall, and protein synthesis are also affected by some AMPs. Currently, antimicrobial resistance is acknowledged as a major concern in the world. Their misuses have enabled the development and dissemination of microorganisms with expanded antibiotic resistance capability. Research on the alternatives to tackle this phenomenon is urgently needed. Today, AMPs have largely demonstrated their effectiveness on several malevolent bacteria. In addition to their antibacterial activity, AMPs are also endowed with further functions, including antiviral, antiparasitic, anti-inflammatory, and anticarcinoma activities. Some of these peptides are even able to modulate the immune response of host organisms, regulating cytokine secretion and dendritic cell behavior, and enhance recovery abilities. This “multifunction status” of AMPs renders these molecules a new category of drugs whose potential has been steadily reported and documented.

Guest Editor

Dr. Yanath Belguesmia

BIOECOAGRO Unit of Research INRAE 1158, Lille University, 59655 Villeneuve d'Ascq, France

Deadline for manuscript submissions

closed (28 February 2023)



International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 7.3
Indexed in PubMed



mdpi.com/si/56307

*International Journal of
Environmental Research and
Public Health*

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijerph@mdpi.com

[mdpi.com/journal/
ijerph](https://mdpi.com/journal/ijerph)





International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 7.3
Indexed in PubMed



[mdpi.com/journal/
ijerph](https://mdpi.com/journal/ijerph)



About the Journal

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

Editor-in-Chief

Prof. Dr. Paul B. Tchounwou

RCMI Center for Urban Health Disparities Research and Innovation,
Richard N. Dixon Research Center, Morgan State University, Baltimore,
MD 21251, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Public Health, Environmental and Occupational Health)