



Understanding Host-Microbe Interactions: Conflict or Harmony?

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Message from the Guest Editors

Microorganisms have evolved different relationships with human hosts, including commensalism, colonization, infection, and persistence. Their long-lasting association with humans has led to a multitude of functional interactions. Studies on the complex microbial communities inhabiting the human body have revealed the symbiotic nature of their relationship, whose unbalance can significantly affect human health.

In recent years, improvements in in vitro eukaryotic culture models and the combination of high-throughput omics technologies have boosted our understanding in this field. Therefore, this Special Issue will focus on the various aspects of host–pathogen interaction, including host–microbial physiology, pathogenesis, and host immune protective mechanisms. This issue also covers the role of regulatory RNAs in the bidirectional communication between bacteria and human host cells in health and disease.





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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.

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