



Interactions between Pathogens and the Human Immune System

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Message from the Guest Editor

Interactions between microbes and the immune response form a complex and dynamic process of host–microbe interactions (HMI). The interplay between microbes and the immune response is critical in determining a successful eradication of pathogen or the development/progression of disease.

Many components of this microbiome are capable of both commensal and pathogenic activity. Commensals play an important role in immune homeostasis and tolerance. Understanding mechanistic aspects of HMIs has been a major challenge. To overcome such limitations, progress has been made to develop organoids to study the interactions of microbes and components of the immune system in health and diseases.

A number of disease states have been tied to an imbalance or dysbiosis of microbial ecosystems and the interaction with the immune system. Therapeutic microbes have many favorable traits, such as consisting of live cells, having self-renewal abilities, and so on. For this Special Issue of *Pathogens*, we invite original manuscripts and reviews relating host–microbial interactions.





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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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