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Gut Microbiome: Current Status and Future Perspectives

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Message from the Guest Editors

Gut microbiota are now considered as one of the key elements contributing to the regulation of host health. Because of the development of molecular tools and techniques, the complex interactions between the host and the different microorganisms are progressively being deciphered. Gut microbiota deviations are linked with many diseases including obesity, type 2 diabetes, intestinal bowel diseases (IBDs) and several types of cancer. Moreover, scientists have identified that the gut microbiome contributes not only to the health and diseases of the gut itself, but also to those remote extra-enteric organs such as the liver, brain, heart and bone via a bidirectional signaling process. With the rapid development of gut microbiome research and the increase in up-to-date knowledge, the monitoring of the host microbiome has become an emerging area of diagnostics for personalized medicine. Therefore, we invite colleagues and health professionals in basic, clinical and field research to submit their manuscripts to this Special Issue in the form of original research studies and reviews.



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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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