



The Gut Microbiota and Human Health

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Message from the Guest Editor

According to the words of Hippocrates, “all diseases begin in the gut”, our understanding of gut microbiota has been revolutionized by the advances in molecular technology. Nowadays, gut microbiota are considered the most densely populated and diverse microbial communities in humans. Up to 100 trillion microorganisms colonize the intestinal tract and play a central role in the development of the immune system, the defence against pathogens, and the metabolism. The perturbation of gut microbiota, termed dysbiosis, is induced by antibiotics, a Westernized diet, exposure to stress, the aging process, hygienic issues, and other factors, and is responsible for the development of diseases both inside and outside of the gut. The pathogenesis of functional and inflammatory bowel diseases, multiple sclerosis (MS), metabolic-associated fatty liver disease (MAFLD), systemic inflammatory arthritis, and allergic diseases have been reported to be related to gut microbial dysbiosis. On these grounds, we welcome research articles, reviews, and communications based on the most recent advances in the study of the role of gut microbiota 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. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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