



Gut Microbiome in Homeostasis and Disease

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Message from the Guest Editor

There is emerging evidence that the gut microbiome plays a central role in orchestrating homeostasis, and its disturbance, commonly known as dysbiosis, has been linked to numerous pathologies, such as metabolic syndrome, intestinal diseases, and cancer. In this regard, we invite you to submit original or review articles in both the clinical and preclinical field of research, illuminating the role of the gut microbiome in shaping immunity and organisms' pathophysiology. Once we comprehend the complex mechanisms regulating the balance and the benefits or detrimental effects of several genera, we will be able to effectively treat patients for chronic, still unsolved diseases. Welcome are, among others, studies on the gut-brain axis, gut-liver axis, fecal microbiota transplantation, probiotics, and commensal and non-commensal microorganisms, including *Helicobacter* species. These data are hopefully going to lead to new opportunities for diagnosis, prognosis, and treatment of a plethora of human diseases.





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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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