Special Issue

Gut Microbiota-Host Interactions under Inflammatory Conditions

Message from the Guest Editor

The gut microbiota is an integral part of the human body. Gut dysbiosis is influenced by host genetics, diet, antibiotics, and inflammation, and it is closely linked to the pathogenesis of inflammatory diseases such as obesity, among others. Inflammation is a normal physiological response of the body to foreign pathogen invasion, and plays two conflicting roles in human health. On the one hand, inflammation is the body's automatic defense response, which also promotes wound healing. On the other hand, excessive inflammatory response results in a series of diseases such as obesity. The gut microbiota and its metabolites may regulate the host inflammatory conditions. Numerous studies have linked the gut microbiota to inflammatory diseases and demonstrated that the immune-mediated inflammatory diseases change the composition of the gut microbiota. The purpose of this Special Issue is to investigate the correlation between the gut microbiota and inflammatory states, in consideration of the fact that further studies and discoveries could be revolutionary and modify the therapeutic approach to various pathologies.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2022)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/95033

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"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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