



Gut Microbiota-Host Interactions under Inflammatory Conditions

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Message from the Guest Editor

Dear Colleagues,

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.

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