



Gut Microbiome and Human Diseases

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Message from the Guest Editors

Dear Colleagues,

The gut microbiome is the most densely populated microbial site on or within the human body and exerts immunological, protective and metabolic effects on the host, with a disruption to the balanced relationship posited to be involved in the pathogenesis of various diseases including liver, intestinal, metabolic, mental, immunological disorders and cancer. The posited mechanism of action is that microbial translocation due to increased intestinal permeability can induce a state of metabolic endotoxemia when bacteria and bacterial fragments leak into systemic circulation and cultivate a pro-inflammatory environment in various organs.

This special issue will aim to explore the current understanding of the role of the gut microbiome in the pathogenesis of liver, intestine, metabolic, mental and immunological disorders as well as research exploring how it can be manipulated with probiotics/prebiotics and antibiotics designated as adjunct medicines could beneficially help to treat these variable human diseases.

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Message from the Editor-in-Chief

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