

Special Issue

Gut Microbiome Manipulation: Focus on Microbiome Characterization, Diagnostics and Therapeutic Indications

Message from the Guest Editor

Over the past two decades, advances in omics technology have allowed comprehensive characterizations of the gut microbiome in many health disorders. Perturbation of host–microbiome crosstalk has been associated with different health disorders, including irritable bowel syndrome, inflammatory bowel diseases, diabetes, *Clostridium difficile* infection and mental health disorders. Therefore, the focus of interest of the current wave of microbiome research is to investigate how to manipulate the gut microbiome consortium to promote human health. Manipulation of the gut microbiome can be achieved through restoring microbiota diversity and composition or by inducing certain functional activities. The purpose of this Special Issue is to create a collection of scientific reports that help us to understand the microbiome's therapeutic potential in different disorders. We invite original articles and extensive reviews in the areas of microbiome characterization, biomarker identification and microbiome-based therapeutic manipulations. Any type of article on host–microbiome crosstalk is welcome.

Guest Editor

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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