Special Issue

Gut Microbiota and Precise Modulation

Message from the Guest Editor

The gut microbiota plays a critical role in maintaining human health. Understanding an individual's gut microbiota can provide insights into key taxonomic groups and potential diseases associated with the gut microbiota. Analyzing the gut microbiota of a cohort can help identify the distribution and variation of microbes related to human health. Probiotics can be used to modulate the gut microbiota, and studying the composition of probiotics in different individuals can not only reveal their health status but also provide information on which probiotics have colonized their gut microbiota. Based on this information, proper prebiotics can be supplemented to support the growth of personal probiotics, and specific probiotics can be provided to enhance the colonization of individual probiotics in the gut microbiota. To provide precise recommendations for personal gut microbiota modulation, further research and development are needed in the application of microbiome and synthetic probiotics.

Guest Editor

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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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