

Special Issue

Human Microbiome and Diseases: Implications for Novel Therapies

Message from the Guest Editor

The human microbiome has emerged as a new important player for human health status acquisition and maintenance. Recent advances in next generation sequencing technologies have increased our ability to study the complexity of microbial communities at deeper resolution. As a consequence, several studies have highlighted the presence of a microbial dysbiosis in an increasing number of diseases. Shedding light on the complex interactions between the human host and its microbial communities may provide novel insights into disease pathogenesis and their treatment. Indeed, this evidence is prompting metagenomic studies in the attempt to identify novel disease biomarkers for diagnosis and monitoring, and also novel actionable targets for the development of novel therapies based on microbiome manipulation. This Special Issue on the “Human microbiome and diseases” will focus on the state-of-the-art of this emerging field that highlights the important interplays between humans and microbes. The powerful understanding of these relationships still needs to overcome technological challenges specially to test the efficacy and safety of possible therapeutic approaches.

Guest Editor

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