Application of Microbiome in Disease Diagnosis and Treatment

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Message from the Guest Editors

Dear Colleagues,

There is currently growing research into the impact of the gut microbiome on human homeostasis and how its alteration may influence the development of certain diseases via the gut–brain axis. Determining the levels of certain intestinal strains in diseases is becoming of great diagnostic value in the clinic, especially through 16S ribosomal RNA (rRNA) gene sequencing, quantitative polymerase chain reaction (qPCR), metabolomics, and metagenomic sequencing. The information provided by these analyses is extensive, including relative and absolute abundance, diversity, and microbial richness that can support diagnosis. Different strategies based on bidirectional communication between microbiota and brain can be used to restore the affected gut microbiota such as probiotics, prebiotics, and recently fecal microbiota transplantation. Thus, their use appears to have beneficial effects on individuals with autism, obesity, anxiety, depression, and hepatic encephalopathy. We thank you for considering this invitation and are available for any inquiries.

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Special Issue

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Message from the Editor-in-Chief

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