

Special Issue

The Microbiome and Dysbiosis in Various Pathologies

Message from the Guest Editors

The gut microbiome is composed of a vast community of microorganisms that reside in the digestive tract, specifically the large intestine. This microbial ecosystem contains bacteria, viruses, fungi, and other microbes that, together, influence various physiological processes. The gut microbiota is made up of six major phyla of bacteria: *Firmicutes*, *Bacteroidetes*, *Actinobacteria*, *Proteobacteria*, *Tenericutes*, and *Fusobacteria*. Each individual will have a different microbiota composition depending on factors such as their age, diet, stress level, and frequency of antibiotic use, along with various environmental factors. This Special Issue will include original research articles, case reports, and review papers investigating biochemical, genetic, and epigenetic biomarkers related to the risk of developing dysbiosis, in order to elucidate the pathogenic mechanisms behind it. We will consider in silico and experimental in vitro and in vivo studies and clinical studies with the potential to improve the management (prevention, diagnosis, and treatment) of dysbiosis.

Guest Editors

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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