



Gastrointestinal Microbiota and Gut Barrier Impact Human Health and Disease

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Message from the Guest Editor

Dear Colleagues,

Recent observational and intervention studies indicate that the gut microbiota, which is the community of microorganisms living in the gastrointestinal tract and a component of the gut barrier, is one of the key regulators of many physiological processes and pathological conditions of the human body.

As we know, physiological conditions (pregnancy, delivery, weaning, aging, etc.) and several interventions may modify the complex interaction between gut-inhabitant flora (microbes, viruses, fungi, etc.) and the gut barrier in health and disease, like dietary regimens and diet components, the administration of drugs (particularly antibiotics), and recently, fecal microbiota transplantation, coadjuvant therapy in life-threatening infectious conditions.

I kindly invite you to contribute to this Special Issue in *Microorganisms*, aiming to broadly cover gut microbiota/gut barrier interactions in maintaining health, and to outline their possible role in inflammatory, autoimmune, oncological, and neurodegenerative diseases.

Dr. Maria Cristina Mele

Guest Editor





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Message from the Editor-in-Chief

"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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