

Special Issue

Microbiota Restoration and Modulation by Functional Products

Message from the Guest Editor

Dear colleagues, The study of the microbiota represents an interesting way to study evolution and alleviate major human pathologies like type 2 diabetes, cardiovascular diseases, or neurodegenerative pathologies. Gut microbiota modulation through the administration of functional products (probiotics or natural products) could determine important changes in imbalanced physiological functions. This Special Issue collects papers presenting new in vitro/in vivo research works that valorize different products or processes to assess microbiota restoration and modulation. Antioxidant and anti-inflammatory effects that could influence microbiota patterns should be considered in the submitted papers, as they represent major factors that could reduce microbial imbalances in degenerative diseases. Microbiota bioactivity influences the gut–brain axis, and targeting this interaction could be an important way of supporting and controlling regenerative capacity. Special attention will be given to studies that present molecular mechanisms and biomarkers related to the microbiota fermentative processes (e.g., short-chain fatty acids) and other factors resulting from microbiota modulation.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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