Microbiome applications in food, nutrition and health

Guest Editor

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Message from the Guest Editor

Dear Colleagues,

In recent years, there has been increased interest in microbiome applications in food, nutrition and health. The microbiome has been found to play a vital role in numerous critical areas of food science and technology, nutrition and human health. Therefore, the food industry is now actively contributing to microbiome research, to support clinical studies to prove the reliability of claims associated with the improved health of functional ingredients and food products. The mode of action and the related mechanisms of microbiome interactions with food constituents could help to determine the clinical efficacy of such studies, and their role in improving nutrition resulting in a significant improvement in the prevention, and treatment of various diseases.

The aim of this Special Issue is to highlight microbiome applications in food, nutrition and human health research. Original Research and Review articles to be published will contribute to our understanding of:

- gut microbiome in health and disease
- nutrition, microbiome and digestive health
- interactions of the gut microbiome with functional ingredients and food products
- the development of the microbiome in early-life
- role of the microbiome on the gut-brain axis
- skin microbiome and phytochemicals
- plant-based bioactive ingredients as potential prebiotics

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Guest Editors
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