



Current Trends in the Applications of Probiotics and Other Beneficial Microbes

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Message from the Guest Editor

Probiotics and other beneficial microbes can have many beneficial effects on their hosts via modulation of the gut microbiota. They can also influence other parts of the body via various axes in humans and animals, such as the gut–microbiota–brain axis, gut–microbiota–skin axis, gut–vagina axis, etc. Other beneficial microbes include microbes, which are responsible for the fermentation of foods such as yoghurt, kefir, kombucha, kimchi, and many others. The beneficial effect of these foods is enhanced due to the microbial production of nutrients, antimicrobial and antioxidant substances, as well as bioactive peptides. Last of all, microbes play a dominant role in regulating the biogeochemical cycles on our planet. The potential topics of this Special Issue will focus on the many applications of beneficial microbes including, but not limited to: beneficial microbes and host–microbiome modulation; beneficial microbes and fermented foods; novel beneficial microbes; and beneficial microbes and ecology.





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Message from the Editor-in-Chief

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