

## Special Issue

# Prebiotics and Probiotics: Healthy Biotoools for Molecular Integrative and Modulation Approaches

### Message from the Guest Editors

Helpful bacteria in the colon have many important functions that include increasing mineral homeostasis, strengthening the intestinal barrier, regulating the immune response and therefore human health and wellbeing. Hence, probiotics and prebiotics are food bioproducts that exert key functions in maintaining human gut eubiosis and are specially designed for this purpose. The diversity of prebiotic substances, probiotic microbes, and the influences that they may respectively exert mean that any health-enhancement claims must be supported by experimental and clinical data. However, the molecular mechanisms and interactions of prebiotics and probiotics with their specific targets for immune responses are not well known, and such information will help to identify new alternative compounds as therapies against various pathologies. In this Special Issue, we welcome innovative and original research articles, as well as high-quality review articles with pioneering opinions with a focus on probiotics and prebiotics and balance host health/disease, related to their antibacterial roles.

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### Deadline for manuscript submissions

closed (31 December 2022)



## International Journal of Molecular Sciences

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Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
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