

Special Issue

Gut Microbes and Gut Metabolites

Message from the Guest Editor

Interventions can provide microbes or foods/supplements with components such as flavonoids, phenolic compounds or non-digestible carbohydrates in the diet with the aim of effecting positive changes in the gut microbiota. Several general mechanisms have been established by which the gut bacteria or their major products can affect aspects of the host's biology. However, the mechanisms by which specific probiotics or prebiotics act are much less established. Some of the microbial metabolite products and endogenous metabolites related to energy pathways and those involved in digestion have the capacity to interact with the microbiome, leading potentially to a net positive balance in health or at least to a sustainable homeostasis. In vivo and in vitro studies on host metabolism and involvement of microbiota will be particularly welcome. This special issue will display the latest results in nutritional metabolomics/lipidomics and review the current developments while providing the readers with an exciting prospect of new possibilities in preventive medicine and precision nutrition research.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/52487

*International Journal of
Molecular Sciences*
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