Special Issue

Roles and Functions of Micronutrients in Gut Microbiota and Intestinal Inflammation

Message from the Guest Editor

Dear colleagues. Micronutrients are essential nutrients required by organisms in small quantities throughout their lifespan to regulate many physiological activities necessary for growth, development, and overall health. Micronutrients can be found in a variety of foods. including fruits, vegetables, nuts, seeds, and dairy products; synthesised forms of micronutrients are also available in dietary supplements for individuals who may have difficulty in obtaining enough through their diet alone. The gut microbiota play an important role in maintaining the integrity of the intestinal barrier by regulating gut homeostasis. A compromised gut barrier can promote the leakage of detrimental substances like harmful bacteria and toxins into the bloodstream. thereby increasing the risk of intestinal inflammation. An increasing number of studies have demonstrated the benefits of micronutrients, including anti-inflammatory, antioxidant, and anticancer effects, while their interactions with the gut bacteria have not been fully elucidated.

Guest Editor

Dr. Chao Wang

Department of Food Science and Technology, Jinan University, Guangzhou 510632, China

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International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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