

Special Issue

The Role of Dietary Bioactive Compounds on Immune and Inflammation-Related Diseases

Message from the Guest Editor

Much interest has been focused on the anti-inflammatory and anti-oxidant activities of plant-derived bioactive molecules. These factors show their synergistic activity and have been described to complement therapeutic drugs, lowering very often the side effects, increasing in this way the compliance of patients. Cytokines and chemokines released by innate immunity cells play a central role in the development and progression of several very widespread diseases. The immune system responds to exogenous and endogenous stresses, and particular importance is provided to the interaction with microbiota, which has the ability to polarize the cells of the immune system towards a pro- or anti-inflammatory phenotype.

Ageing, the main condition behind a broad spectrum of chronic disorders. Personalized medicine, pre- and probiotics, and modern technologies are designed to counteract the negative effects of the ageing condition through focus upon anti-inflammatory and autophagy to redress the homeostatic balance at cellular and tissue sites in cell culture studies.

This Special Issue welcomes original research articles and literature reviews on this important topic.

Guest Editor

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Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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