

Special Issue

Immunomodulatory Effects of Dietary Polyphenols

Message from the Guest Editors

Inflammation and related immune disorders place a heavy burden on the healthcare system.

Accumulating data suggest that polyphenols have shown several potential biological activities, especially antitumor activity dependent on immune function. Polyphenols can modulate immunity by interfering with immune cell regulation, the synthesis of pro-inflammatory cytokines, and gene expression, or can affect dendritic cells and have immunomodulatory effects on macrophages. A better understanding of the body's interactions with polyphenols is critical to the more effective use of these phytochemicals for disease prevention and treatment. However, the existing studies have not been able to elucidate the immunomodulatory effects of polyphenols and the underlying mechanisms of stimulating immune responses.

This Special Issue aims to highlight the role of plant polyphenols in immune and inflammatory responses. Topics can include the results of polyphenols on the modulation of immune inflammation or original articles and review papers on the mechanisms of the immune modulation of polyphenols and their clinical relevance. We welcome comprehensive reviews and original research papers.

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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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