

Special Issue

The Role of Phytochemicals in Metabolism and Immunity

Message from the Guest Editor

The immune system modulates the functioning of cellular metabolism in different organs, including the liver, adipose tissue, pancreas, or brain. There is numerous evidence on the close relationship that exists between different metabolic alterations and an inadequate immune response, in which an altered microbiome composition may play a key role. Consequently, the restoration of immune function, directly or through the restoration of gut microbiome composition, will have a positive impact on the management of these metabolic diseases. The intake of edible phytochemicals is among one of the possible therapeutic strategies with beneficial effects in these situations, since they contain active ingredients of a different nature, such as polyphenols, which have been demonstrated to exert different biological properties, including their immunomodulatory capacity and/or prebiotic properties, being able to restore the cellular functioning affected in these metabolic diseases.

This special issue aims to collect articles focused on the evaluation of the impact of well-characterized dietary phytochemicals in different metabolic conditions.

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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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