

Special Issue

Dose-Related Activity of Polyphenols: Physiological Interaction with Gut Microbiota

Message from the Guest Editors

Polyphenols are among the most extensively studied nutritional phytochemicals due to their potential beneficial effects on human health. This Special Issue offers a comprehensive exploration of the intricate relationships between polyphenol dosage, their bioactivities, and their modulation of gut microbial communities. Topics of interest include, but are not limited to, the following:

Dose–response effects of polyphenols on human health outcomes.

Biotransformation of polyphenols by gut microbiota and its impact on bioactivity.

Reciprocal interactions between polyphenols and gut microbial composition or functionality.

Clinical and preclinical evidence of dose-specific polyphenol effects mediated by the gut microbiome.

Methodological advances for studying dose-dependent polyphenol–microbiota interactions.

By highlighting the synergistic and dose-specific effects of polyphenols in the context of gut microbiota, this Issue seeks to expand our understanding of their role in human health and encourage innovative research at the intersection of nutrition, microbiology, and pharmacology.

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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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