

## Special Issue

# Bioavailability, Metabolism, and Health Effects of Phenolic Compounds

### Message from the Guest Editors

The health effects of phenolic compounds are related to their biological properties, including their ability to interact with enzymes and metabolic pathways involved in human pathologies, beyond their antioxidant properties. Only a small portion of ingested phenolic compounds is absorbed at the intestinal level, while most of them reach the colon, fundamentally modified by the colonic flora, producing low-molecular-weight metabolites that are further absorbed, reaching the systemic circulation. Additionally, endogenous metabolism at intestinal and hepatic levels may further modify the structure of phenolic compounds. Therefore, not only the parent phenolic compounds found in vegetables but also endogenous and colonic metabolites may be responsible for the protective effects of these molecules on human health. This Special Issue aims to collect research and review articles encompassing all the aspects related to the gastrointestinal fate, absorption, metabolism, gut microbiota interaction, and health properties of phenolic compounds and their metabolites. Both in vivo and in vitro studies on these topics are welcomed.

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### Guest Editors

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### Deadline for manuscript submissions

28 February 2027



## Biology

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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### Editors-in-Chief

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