

Special Issue

New Frontiers on the Metabolism, Bioavailability and Health Effects of Phenolic Compounds II

Message from the Guest Editors

This Special Issue should shed light on how (poly)phenolic substances are: (1) metabolized and turned into bioavailable molecules; (2) able to impact different biological processes related to human health, such as cardiovascular diseases, metabolic syndrome, neurodegenerative disorders, and certain kinds of cancer. There is a need for addressing: (1) the catabolism of phenolic compounds by the colonic microbiota; (2) the inter-individual differences in bioavailability and bioefficacy due to the diversity of microbiota composition. Future research should be focused on: (1) understanding the dose/phenolic intake–response relationship via pharmacokinetic studies; (2) evaluating proper biomarkers of intake. In conclusion, this issue reviews all aspects concerning the metabolism, bioavailability, and biological properties of (poly)phenolic compounds and discuss attempts to solve current critical gaps. Novel methodologies or out-of-the-box approaches can also complement the current knowledge and assist in the study of these plant bioactives. More details please see: https://www.mdpi.com/journal/molecules/special_issue/phenolic

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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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