

## Special Issue

# The Effect of Phenolic Compounds in Human Diseases

### Message from the Guest Editor

Polyphenols are a class of natural compounds extensively occurring in the vegetable kingdom and generally consumed in high quantities by human individuals through diet. Epidemiological evidence indicates that a high dietary intake of polyphenols is correlated with a decreased risk of several types of pathologies including cardiovascular disease (CVD), certain tumoral forms, and neurodegeneration. Although the interaction between polyphenols and cells has recently been better elucidated, there is still much work to do before the specific cellular targets and mechanisms of action can be ascertained. Along with this, a deeper understanding of the bioaccessibility and bioavailability of polyphenols in vitro and in vivo have to be determined. While various lines of evidence via biomarker assessments and the use of pharmacological tools in vivo (i.e., specific enzyme inhibitors, receptor agonists or antagonists) have indicated several potential mechanisms of action, a comprehensive proof and conclusive understanding has yet to be established.

### Guest Editor

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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