

## Special Issue

# Polyphenols-Biological Systems Crosstalk

### Message from the Guest Editor

A growing body of research, both in vitro and in vivo or ex vivo, have deciphered different mechanisms by which polyphenols could modulate cellular and molecular processes playing a pivotal role in the pathophysiology. The chemistry of polyphenols is quite complex, and can be affected by extrinsic factors. Polyphenols can molecularly bind to cell receptors, digestive enzymes, and microbiota spread throughout all biological compartments. This journey starts in the oral cavity and all these molecular interactions will influence the bioaccessibility, bioavailability and overall biological assumption of food, as well as the general biological status. These difficulties demonstrated the need to go beyond to a comprehensive view. The understanding of key players in the inter-individual variabilities is the basis to decipher the real function of bioactive compounds, since “one size does not fit to all”. Overall, this Special Issue is dedicated to answering these open questions from a molecular perspective, collecting articles in the field of personalized nutrition.

### Guest Editor

Dr. Rosa Perez-Gregorio

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### Deadline for manuscript submissions

closed (31 October 2022)



## International Journal of Molecular Sciences

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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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