

Special Issue

Role of Polyphenols in Human Health and Food Systems

Message from the Guest Editor

In recent years, several molecular receptors and (bio)polymers have been synthesized or functionalized to enhance the selective molecular recognition and sensing of many biologically relevant metabolites (e.g., glucose, sialic acids, catecholamines) and key biomarkers of several diseases such as diabetes, cancer, and neurodegenerative disorders. On the other hand, polyphenols present in plant-based foods have been associated with health-promoting effects due to their recognized biological properties that have been widely reported. This Special Issue intends to contribute to the development of new polyphenol-based (bio)materials (e.g., hydrogels, nanoparticles, films/membranes, polymeric micelles, liposomes, dendrimers, host–guest systems) with smart functionalities (self-healing, self-sensing), stimuli-responsive properties (pH, temperature, light), and biological activities (antioxidant, anticancer, antimicrobial properties) towards human health for application in the fields of theranostics, sensing, imaging, and drug/gene delivery.

Guest Editor

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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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