



Role of Polyphenols in Human Health and Food Systems

Guest Editor:

Prof. Dr. Luis Cruz

REQUIMTE/LAQV, Departamento
de Química e Bioquímica,
Faculdade de Ciências,
Universidade do Porto, Rua do
Campo Alegre, 687, 4169-007
Porto, Portugal

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Message from the Guest Editor

Dear Colleagues,

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.

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Guest Editor





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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