

Special Issue

Anthocyanins: Chemistry and Bioactivity

Message from the Guest Editor

Over the years, numerous biologic studies have demonstrated the potential health benefits of anthocyanins to Humans, specially related to the antioxidant properties of anthocyanins. In aqueous solution, these pigments exist as different species: flavylium cation, neutral and anionic quinoidal base, hemiketal form, cis- and trans-chalcone forms in equilibrium. Besides pH, anthocyanins stability is also affected by light, temperature and exposure to oxygen which has been limiting their use in food and cosmetic matrices as colorants and nutraceuticals.

We invite researchers to contribute either with original research or review articles focusing on, but not limited to: i) chemical transformation of anthocyanins towards the production of more stabilized structures with appealing chromatic features; ii) stabilization of anthocyanin using original approaches; iii) mechanism of action in improving human nutrition; iv) bioactivity (bioavailability, metabolites, enzymes inhibition, anti-proliferative and anti-bacterial activities).

Guest Editor

Dr. Joana Oliveira

LAQV-REQUIMTE, Department of Chemistry and Biochemistry, Faculty of Science, University of Porto, 4169-007 Porto, Portugal

Deadline for manuscript submissions

closed (28 February 2021)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
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