



Anthocyanins: Chemistry and Bioactivity

Guest Editor:

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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).





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Message from the Editor-in-Chief

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