

Special Issue

Antioxidant and Prooxidant Properties of Flavonoids

Message from the Guest Editor

The beneficial effects of flavonoids have been documented predominantly in the context of oxidative-stress-related diseases, such as cancer, cardiovascular diseases, and neurological disorders. Antioxidant properties of flavonoids are related primarily to the number and positions of hydroxyl groups and to their redox active metal chelating capacity. However, flavonoids cannot exclusively be considered to be antioxidants. Under certain conditions, such as a high concentration and in the presence of redox metals, flavonoids may exhibit pro-oxidant behavior. Paradoxically, the pro-oxidant activity of flavonoids may be beneficial since it may induce the pooling of antioxidant enzymes and, thus, exhibit preventive effects on various health problems.

The aim of this Special Issue is to discuss the antioxidant and pro-oxidant properties of flavonoids, their interaction with redox metals, and their role in the prevention of a variety of disease states.

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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