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Role of Flavonoids on Cell Signalling Pathways

Guest Editor:

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Deadline for manuscript submissions:
closed (31 August 2019)

Message from the Guest Editor

Flavonoids and some of their metabolites have been shown to affect key cell signalling pathways, demonstrating their involvement in a number of cell functions, e.g., related to redox signalling, inflammation, and metabolic regulation. Mechanisms are likely to involve direct interactions of flavonoids with proteins, including transcription factors and nuclear receptors, and their impact on gene regulatory networks as well as affinities for membrane association relating to subcellular localization and targeted effects in mitochondria or nucleus.

This Special Issue welcomes recent original findings and reviews on the following aspects of this topic:

- Mechanistic studies on flavonoids on different cellular signalling pathways (in vitro and in vivo)
- Flavonoid-protein and receptor interactions, identification of cellular binding proteins
- Subcellular location, e.g., mitochondria interactions, and consequences for cell signalling
- Differential effects of flavonoid subgroups and their (gut) metabolites on signalling and function
- Flavonoid effects on epigenetic mechanisms

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Editor-in-Chief

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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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