

Special Issue

Antioxidants—Oxidative Stress and Antioxidative Mechanism in Plants

Message from the Guest Editor

Antioxidants are the main defense of living organisms against cellular oxidative damage initiated by free radicals. Free radicals occur as a result of either normal metabolism or oxidative stress produced by environmental conditions, and accumulation of a high level of free radicals can generate cell damage and even DNA damage in the absence of antioxidants that are capable to quench them. Comprehension of antioxidants' involvement in mechanisms of reactive oxygen species regulation is important in order to modulate the conditions ensuring normal plant growth. Therefore, studies on the role of antioxidant supplements, as well as the role of gene variability in oxidative stress in relation to nutrigenomics are welcome. In this Special Issue, we shall present state-of-the-art knowledge around antioxidants and their role in regulation mechanisms of oxidative stress in plants and humans through classic and/or molecular genetic assessment, as well as their beneficial role in human nutrition.

Guest Editor

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