

Special Issue

Antioxidants: Discovery, Analysis, Medicinal Prospects and Potential Applications

Message from the Guest Editors

Antioxidants, a chemically diverse group of compounds, are of great interest due to their key role in advancing human health. These compounds have the potential to delay or prevent cell damage by scavenging free radicals through various lines of defense. The main dietary sources of antioxidants are fruits, the fruiting bodies of edible mushrooms and mycelia, vegetables, herbs, algae, and nutraceuticals and dietary supplements fortified with synthetic or natural antioxidants. Phenolic and indole compounds, carotenoids, sterols, and some vitamins and bioelements play a key role in protecting our cells from oxidative stress and reducing the risk of chronic diseases. If not properly addressed, damage caused by free radicals produced as by-products of metabolic pathways (and by external factors such as pollution, smoking, UV radiation, and certain medications) may contribute to the development of age-related diseases such as cancer or neurodegenerative disorders.

In this Special Issue, we will explore and delve into the multifaceted world of antioxidants, examining their discovery, analysis, mechanisms of action, and pro-oxidant–antioxidant balance.

Guest Editors

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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