

## Special Issue

# Exploring the Role of Polyphenols in Oxidative Stress and Cellular Protection

### Message from the Guest Editor

Polyphenols, a diverse group of naturally occurring plant compounds, are well known for their antioxidant properties. While they have been widely studied for their potential health benefits, recent research has increasingly focused on their molecular mechanisms, their effects on cellular processes, and their broader applications in science and industry. Polyphenols play a critical role in managing oxidative stress, a key factor in the development of various diseases and cellular dysfunctions; however, the complexity of their biological interactions remains a topic of ongoing debate, underscoring the need for further exploration. This Special Issue aims to provide a more focused exploration of polyphenols, particularly in relation to their roles in oxidative stress modulation and cellular protection. Rather than emphasizing health benefits alone, this Special Issue will concentrate on the biochemical mechanisms that underpin polyphenol activity, as well as their broader applications beyond health promotion.

### Guest Editor

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## Antioxidants

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## About the Journal

### 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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### Editor-in-Chief

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