



Antioxidants and Omics Techniques

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Message from the Guest Editors

Recently, omics techniques, such as genomics, transcriptomics, proteomics and metabolomics, have revolutionized biological and medical research. These new types of analysis allow a much deeper systematic insight into the protective mechanism of antioxidants and their interaction with genes or proteins.

This Special Issue aims to build a relationship between omics techniques and antioxidant therapy studies. Contributions to this Special Issue, both in the form of original research and review articles, may cover all aspects of omics techniques in order to deepen our understanding of the biological action of antioxidants. The following topics will be considered: uncovering the protective mechanism of antioxidants by transcriptomics or proteomics analysis; describing the metabolism of antioxidants and/or the interaction between antioxidants and endogenous metabolites; describing the effect of antioxidants on epigenetic modification/gut microbiota composition; and creating a database for the omics data of antioxidants.





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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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