

Special Issue

Advanced Research on Antioxidant Activity

Message from the Guest Editor

The oxidation process is a normal consequence of metabolism in biological organisms. The result of this process is the formation of harmful products, i.e., reactive oxygen species (ROS) and reactive nitrogen species (RNS). Oxidative activity leads to chronic inflammation, which in turn contributes to the development of cancer, heart and vascular diseases, type II diabetes, neurodegenerative diseases, etc. Currently, there is a large increase in lifestyle-related diseases in highly developed countries, which is characterized by a loss of control over the antioxidant system. Therefore, bioactive compounds of both synthetic and natural drugs (e.g., plants), which are able to modify and control oxidizing agents, could be suitable candidates for the development of new strategies to improve and promote health. Moreover, it is also extremely important to understand the signaling pathways of the antioxidant action of various, including new, bioactive compounds. This Special Issue invites submissions of original studies, review articles, reports and literature reviews on recent advances in molecular antioxidant mechanisms.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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