

Special Issue

Oxidative Stress and Antioxidants in Human Diseases

Message from the Guest Editor

Currently, the problem of the molecular and cellular mechanisms of oxidative stress development is extremely relevant for medical science. It was proved that excess accumulation of oxidative stress products changes proteins, fat, carbohydrates, nucleic acids, water, and electrolyte metabolism, which can cause severe tissue damages and organism adaptive capacity reduction. It can play an important role in the pathogenesis of a significant number of pathologies (obesity, diabetes mellitus, cardiovascular diseases, reproductive disorders, COVID-19, etc.), and there are also several data about the possible role of oxidative stress in the aging process. While there are widely used markers of oxidative stress, new data are emerging on other potential biomarkers for free radical damage to cells. To date, however, there is no single view on the mechanisms of free radical reactions and the antioxidant defense system regulation.

Because of that, this issue of the International Journal of Molecular Sciences will focus on new insights into the role of oxidative stress and antioxidants in the pathogenesis of human diseases.

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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