

Special Issue

Advancing Redox Biomarkers in Pathological Conditions

Message from the Guest Editors

This Special Issue aims to collect and disseminate the latest research and progress related to the use of oxidative biomarkers in pathological conditions that induce or cause redox system imbalances. Understanding and quantifying oxidative stress is fundamental for understanding the mechanisms underlying diseases, such as cardiovascular disease, neurodegenerative disorders, cancer, and aging-related diseases. The study of oxidative stress and the selection of biomarkers remain challenges, both in terms of identifying new stress markers (such as the detection and/or quantification of specific post-translational modifications in proteins) and validating, standardizing, and reproducing existing methodologies. The accurate measurement and interpretation of these markers provide critical insights into comprehensive disease assessment, aiding in diagnosis, the development of new therapeutic strategies, and monitoring treatment outcomes. This Special Issue invites authors to submit studies and reviews related to oxidative dysregulation via the detection of markers of oxidative stress as both causes and consequences of associated diseases.

Guest Editors

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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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