

Special Issue

Molecular Biomarkers of Oxidative and Nitrosative Stress: Mechanisms, Detection, and Clinical Significance

Message from the Guest Editors

Oxidative and nitrosative stress in the biological system are defined as excessive production of reactive oxygen and nitrogen species (ROS/RNS) or impaired cellular antioxidant protection mechanisms contributing to aging, chronic inflammatory processes, and a broad range of pathological conditions, including metabolic disorders, neurodegeneration, cardiovascular disease, and cancer. The quantification and interpretation of selective molecular biomarkers provide a powerful scientific toolbox improving diagnostic accuracy, disease monitoring, prognosis, and evaluation of new therapeutic strategies. As our analytical capabilities continue to evolve, so does the potential for more precise detection of redox-driven biochemical alterations. This Special Issue, "Molecular Biomarkers of Oxidative and Nitrosative Stress: Mechanisms, Detection, and Clinical Significance" aims to collect high-quality research dedicated to the identification, validation, and mechanistic interpretation of biomarkers associated with redox disturbances in the biological system. In this Special Issue, original research articles and reviews are welcome. We look forward to receiving your contributions.

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Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8

CiteScore 9.2

Indexed in PubMed



mdpi.com/si/267308

Biomolecules
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biomolecules](https://mdpi.com/journal/biomolecules)

Deadline for manuscript submissions

31 August 2026





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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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