Special Issue

Oxidative Stress and Inflammation in Non-communicable Diseases

Message from the Guest Editors

Non-communicable diseases (NCDs) are among the leading causes of death worldwide. NCDs comprise a large spectrum of diseases, including cardiovascular, chronic respiratory and neurological diseases, cancer, diabetes, obesity-related conditions and even infertility. Although the etiology of NCDs is as diverse as the spectrum of diseases, a growing number of studies have verified that many of these diseases share common pathophysiological mechanisms. These studies underpin that mitochondrial alterations, oxidative stress and inflammation play key roles in the onset and development of NCDs. Therefore, the pharmacological or nutritional manipulation of oxidative and inflammatory processes and targets can prevent, improve or delay the progression of NCDs, which can eventually lead to a decrease in the mortality and morbidity associated to NCDs. This Special Issue focuses on the current understanding and future research directions regarding the role of oxidative stress and inflammation in NCDs.

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Deadline for manuscript submissions

closed (31 July 2025)

Biomedicines

an Open Access Journal by MDPI

Impact Factor 3.9
CiteScore 6.8
Indexed in PubMed

mdpi.com/si/188753

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Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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