

Special Issue

Developmental Origins of Health and Disease: Antioxidants as Strategy for Prevention and Treatment

Message from the Guest Editors

Disease development originates early in life, with mounting evidence highlighting the detrimental impact of adverse fetal environments on future health.

Oxidative stress emerges as a common thread linking adverse early-life environments to disease development. Disruptions in redox equilibrium, stemming from either excessive oxidant production or inadequate antioxidant defenses, have been observed in humans and experimental animals exposed to these stressors during critical developmental windows.

Oxidative stress contributes to germline damage, obstetric complications, and prematurity-related morbidity and underlies many common programmed diseases. Yet, the molecular changes tying these associations together remain largely unknown, including the mechanisms through which reactive oxygen species (ROS) and other oxidants modulate specific genes and their interplay with epigenetic modifications. We cordially invite submissions of your latest research or review articles to this Special Issue, aimed at elucidating the role of oxidative stress in the developmental origins of disease and exploring the potential therapeutic applications of antioxidants for prevention or treatment.

Guest Editors

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Deadline for manuscript submissions

30 November 2025



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/209738

Antioxidants
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About the Journal

Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of “oxidative stress” a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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