

Special Issue

The Role of Oxidative Stress in Human and Animal Health

Message from the Guest Editor

Oxidative stress has long been defined as a breakdown of the equilibrium between the (increased) production of reactive oxidant species (ROS) and their (reduced) elimination by antioxidant species. It has now been recognized that the maintenance of a physiological level of oxidant challenge, termed oxidative “eu-stress”, is essential for governing life processes through redox signaling, whereas excessive oxidant challenge causes damage to biomolecules, termed oxidative “di-stress”. We strongly solicit and encourage contributions on these issues, which we believe to be crucial in understanding the real biological role of redox processes in humans and driving our health towards healthy aging. Keywords

- free radicals
- reactive oxygen species
- antioxidants
- oxidative stress
- redoxomics
- mitochondria
- inflammation
- chronic diseases
- degenerative diseases
- aging, diet
- exercise

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Deadline for manuscript submissions

closed (20 January 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/164565

*International Journal of
Molecular Sciences*
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