

## Special Issue

# Nanotechnology and Redox Health

### Message from the Guest Editors

Nanotechnology is an interdisciplinary field that deals with the manipulation, creation, and use of materials, devices, and systems at nanometric scales, in turn offering innovative solutions in various domains, including healthcare. Concurrently, redox health refers to the balance between oxidants and reductants within the body. Oxidative stress, resulting from an imbalance favoring reactive oxygen species (ROS) and reactive nitrogen species (RNS), contributes to the pathogenesis of various chronic diseases. Nanotechnology holds great potential in revolutionizing the treatment of chronic diseases, offering novel tools for early diagnosis, targeted therapy, and tissue regeneration. Research in this field is promising and could lead to significant advancements in public health. In this Special Issue, we aim to explore the intersection of nanotechnology and redox health management. We invite researchers to submit original research reports and reviews that address the potential of nanomedicine to prevent or treat chronic conditions associated with oxidative stress (e.g., cancer, cardiovascular disorders, neurodegenerative conditions, and metabolic syndromes).

### Guest Editors

Prof. Dr. Sueli De Oliveira Silva Lautenschlager

Prof. Dr. Regina Gomes Daré

Dr. Danielle Lazarin Bidóia

### Deadline for manuscript submissions

closed (22 March 2025)



## 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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### Editor-in-Chief

Prof. Dr. Alessandra Napolitano

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