



an Open Access Journal by MDPI

## Oxidative Stress and the Central Nervous System

Guest Editors:

**Dr. Claudia Colussi**

Istituto di Analisi dei Sistemi ed  
Informatica, National Research  
Council (CNR), Rome, Italy

**Dr. Marcello D'Ascenzo**

Fondazione Policlinico  
Universitario Agostino Gemelli  
IRCCS, Rome, Italy

Deadline for manuscript  
submissions:

**closed (20 September 2024)**

### Message from the Guest Editors

Dear Colleagues,

In this Special Issue, we will pay special attention to the impact of oxidative-stress-dependent protein post-translational modifications on protein stability and function and the implications for central nervous system components (neurons, astrocytes, glial cells, stem cells) in aging and neurodegeneration. Both original articles and reviews are welcomed based on in vitro and in vivo studies, focusing on understanding how oxidative stress, through protein alteration (misfolding, aggregation, post-translational modifications, inflammation), impacts the viability and function of the cells of the CNS.

Dr. Claudia Colussi

Dr. Marcello D'Ascenzo

*Guest Editors*



[mdpi.com/si/176457](https://mdpi.com/si/176457)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Alessandra Napolitano

Department of Chemical  
Sciences, University of Naples  
"Federico II", Via Cintia 4, I-80126  
Naples, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, PubAg, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)

## Contact Us

---

*Antioxidants* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/antioxidants](http://mdpi.com/journal/antioxidants)  
[antioxidants@mdpi.com](mailto:antioxidants@mdpi.com)  
[X@antioxidants\\_OA](https://twitter.com/antioxidants_OA)