

Special Issue

Redox Balance and Autophagy in Neuroinflammation

Message from the Guest Editors

Oxidative stress is caused by an imbalance between reactive oxygen species (ROS) production and the capacity of antioxidant defense to remove them. Excessive ROS can damage cellular components, contributing to aging and diseases such as cancer and neurodegenerative disorders. At the same time, autophagy is a cellular process that degrades and recycles damaged organelles and misfolded proteins. This lysosome-mediated clearance mechanism is crucial in maintaining cellular homeostasis and responding to stress conditions. This Special Issue will provide a comprehensive overview of how dysregulated redox balance and impaired autophagy contribute to neuroinflammation in the central nervous system, a common feature of neurological disorders such as Alzheimer's and Parkinson's disease and multiple sclerosis. For this Special Issue, we invite researchers to submit original research articles and review articles covering, but not limited to, the following topics:

- Mechanisms of redox regulation in autophagy during neuroinflammatory responses;
- Oxidative stress and autophagy as targets in neurological diseases;
- Proteinopathies: the role of redox homeostasis and autophagy.

Guest Editors

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Deadline for manuscript submissions

31 December 2026



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 8.2
CiteScore 14.7
Indexed in PubMed



mdpi.com/si/226495

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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.

Editor-in-Chief

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