antioxidants

IMPACT FACTOR 6.0 | Indexed in: PubMed | CITESCORE 10.6

an Open Access Journal by MDPI

Oxidative Stress and Antioxidants in Neurodegenerative Disorders

Guest Editor:

Prof. Dr. Marco Tulio Núñez
Faculty of Sciences, Universidad de Chile, Santiago, Chile

Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editor

It is possible that neuronal death is mediated by ferroptosis, an iron-dependent cell death pathway that differs from other cell death processes at the morphological, biochemical, and genetic levels. Ferroptosis is characterized by iron-mediated lipid peroxidation, depletion of the endogenous antioxidant glutathione, and altered mitochondrial morphology.

Indeed, iron overload has been reported to associate with alterations of mitochondrial function as well as increased oxidative stress, autophagic defects, and diminished lysosomal function. Similarly, a link between iron, the endolysosomal system, and neuroinflammation was recently proposed.

The understanding of how these different players—iron accumulation, ferroptosis, mitochondrial dysfunction, inflammation, and lysosomes—interact to generate neurodegeneration is an open field of huge importance. Equally relevant is the design of therapeutic strategies based on multifunctional drugs that target all these players.

antioxidants

IMPACT FACTOR 6.0 | Indexed in: PubMed | CITESCORE 10.6

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

mdpi.com/journal/antioxidants
antioxidants@mdpi.com
𝕏@antioxidants_OA