Special Issue

Redox Resilience Signaling of Functional Nutrients and Neurotoxicant Pollutants for Human Health

Message from the Guest Editors

Dietary nutrients, also known as “neuro-nutrients”, have been shown to improve the permeability of the blood–brain barrier (BBB) and ultimately brain function, thus inhibiting the apoptosis, inflammation, and neurotoxicity caused by the presence of micro- and nanoplastics in the brain. The impairment of tight junctions and the deregulation of redox resilience signaling due to exposure to neurotoxicant pollutants may exacerbate selective susceptibility under inflammatory conditions, leading to the onset and progression of several chronic disorders, particularly Alzheimer’s disease, anxiety, depression, and cancer, due to the vulnerability of neurons to apoptosis/pyroptosis/ferroptosis. This Special Issue focuses on current research in nutritional neuroscience, targeting several cellular and molecular pathways to block toxicant-induced apoptosis/pyroptosis/ferroptosis, and explores the underlying mechanisms thereof using innovative technologies for the development of promising protective strategies and personalized nutritional therapies in order to promote human health.

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Deadline for manuscript submissions

30 April 2026

Antioxidants

an Open Access Journal by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed

mdpi.com/si/224446

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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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