Special Issue

Deciphering Antioxidant Defence Mechanisms in Neuronal and Non-neuronal Cells

Message from the Guest Editors

In this Special Issue, we invite investigators to contribute with original research articles, as well as review articles focusing on the role of oxidative stress in the pathophysiology of brain aging and neurodegenerative disorders, highlighting the molecular mechanisms of antioxidant defence in neuronal and non-neuronal cells. Potential topics include, but are not limited to, the following: Molecular basis of oxidative stress on glial cells in aging brain; Neurodegenerative diseases and oxidative stress: role of glial cells; Effects of oxidative stress on lipid metabolism in neurodegenerative diseases; Mechanisms of hypoxia-induced oxidative stress in neuronal and non-neuronal cells; Role of oxidative stress-induced autophagy in neuroprotection; Oxidative stress-induced microglial activation in brain aging; Molecular mechanisms of antioxidants in brain aging; Mechanisms of astrocyte reactivity to oxidative stress; Microglial activation and neurodegenerative diseases: molecular basis of oxidative stress: Role of astrocyte response to oxidative stress in BBB permeability.

Guest Editors

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Deadline for manuscript submissions

closed (16 February 2024)



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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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