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Deciphering Antioxidant Defence Mechanisms in Neuronal and Non-neuronal Cells

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Deadline for manuscript submissions:

closed (16 February 2024)

Message from the Guest Editors

Dear Colleagues,

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.



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Special Issue



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Role of astrocyte response to oxidative stress in BBB permeability.

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Message from the Editor-in-Chief

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