



The Role of Oxidative Stress in Ischemic Stroke

Guest Editor:

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Message from the Guest Editor

In recent years, redox biology, the study of oxidation–reduction processes associated with life, has been an area of great interest due to its participation in fundamental aspects of both physiological and pathological conditions. Oxidative stress (distress), a condition characterized by the presence of high amounts of reactive oxygen/nitrogen species, is recognized as the main event leading to brain damage after cerebral ischemia. Ischemic stroke is among the leading causes of disability and mortality worldwide. The Special Issue is dedicated to advancing knowledge of the role played by alterations in redox biology in ischemic stroke. Because oxidative stress involves multiple post-ischemic cascades that lead to cell death, we aim to encompass everything from molecular mechanisms and pathophysiology to clinical management and neuroprotective strategies. We invite collaborators to examine how oxidative stress occurs, what mechanisms of cell death are activated, and how they can be manipulated to induce neuroprotection. Better understanding of these pathways may provide new therapeutic strategies in clinical stroke treatment.





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Message from the Editor-in-Chief

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