Special Issue

Oxidative Stress and Pathophysiology of Stroke

Message from the Guest Editor

Stroke is a devastating disease that represents one of the leading causes of death in the United States and worldwide. Treatment options using mechanical thrombectomy and improved brain imaging have enabled new ways of thinking about the sequence of events that is unleashed by the original ischemic event. which is typically when a blood clot blocks one of the major arteries of the brain. These treatments can now be used to target stroke injury mechanisms in ways that were not available just a few years ago. In parallel, it is now even more obvious how oxidative stress contributes to hemorrhagic forms of stroke, including both intracerebral and subarachnoid hemorrhage. It is necessary to gain an enhanced understanding of oxidative-stress-related mechanisms in all stroke subtypes to develop effective mechanism-based treatments that work. In this Special Issue, we aim to provide both a broad overview of the role oxidative stress plays in causing brain injury following a stroke and of the varying approaches taken to treat strokes by reducing oxidative stress.

Guest Editor

Dr. Klaus Van Leyen

Neuroprotection Research Laboratories, Department of Radiology, Massachusetts General Hospital, Harvard Medical School, Charlestown, MA 02129, USA

Deadline for manuscript submissions

closed (10 October 2024)



Antioxidants

an Open Access Journal by MDPI

Impact Factor 6.6
CiteScore 12.4
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mdpi.com/si/176448

Antioxidants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antioxidants@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Alessandra Napolitano

Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

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