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Inhibition of Oxidative Stress and Related Signaling Pathways in Neuroprotection

Guest Editor:

Dr. Maja Jazvinšćak Jembrek
1. Division of Molecular Medicine, Rudjer Boskovic Institute, 10000 Zagreb, Croatia
2. School of Medicine, Catholic University of Croatia, 10000 Zagreb, Croatia

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Message from the Guest Editor

As the world's population is getting older, neurodegenerative diseases, such as Alzheimer´s and Parkinson´s disease, represent a growing medical, economic, and social threat. Oxidative stress is one of the major underlying mechanisms of neuronal death and can be the initiating factor in the activation of various redox-sensitive signalling pathways which are highly implicated in the onset and progression of molecular and cellular mechanisms driving neurodegeneration. The Special Issue entitled "***Inhibition of Oxidative Stress and Related Signaling Pathways in Neuroprotection"*** is hence devoted to gathering the latest findings covering novel neuroprotective niches in in vitro and in vivo settings that prevent or delay neuronal loss by targeting oxidative stress and related signalling pathways. Hopefully, a better understanding of cellular and molecular mechanisms of action of neuroprotective compounds along intracellular signalling cascades may pave the way toward effective therapies that are *eagerly awaited.*

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Editor-in-Chief

Prof. Dr. Alessandra Napolitano
Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

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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Contact Us

Antioxidants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/antioxidants
antioxidants@mdpi.com
𝕏@antioxidants_OA