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Oxidative Stress-Related Pharmacological Interventions Targeting CNS Disorders

Guest Editors:

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

Dr. Josipa Vlainić
Laboratory of Molecular Neuropharmacology, Division of Molecular Medicine, Ruđer Bošković Institute, POB 180 Zagreb, Croatia

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Message from the Guest Editors

Oxidative stress (OS) plays a prominent role in the pathogenesis of many CNS disorders. This devastating condition results from an imbalance between the generation of reactive oxygen species (ROS) and their elimination by endogenous mechanisms of antioxidative defence systems, including various small non-enzymatic molecules and antioxidative enzymes. In comparison with other tissues, the brain is particularly vulnerable to ROS production and oxidative injury. Increased levels of ROS disturb the activity of redox-sensitive signalling pathways and induce oxidative damage and structural modifications of nucleic acids, proteins, and lipids, threatening neuronal functioning and ultimately progressing to neuronal death and behavioural and cognitive deficits.

We welcome studies that shed light on novel molecular and cellular mechanisms underlying the beneficial effects of antioxidants in various pathological conditions in vitro and in preclinical models but would like to encourage the submission of the results from human studies.

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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