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Oxidative Stress in Alzheimer's Disease

Guest Editor:

Dr. Vega García-Escudero
Anatomy, Histology and Neuroscience Department, School of Medicine, Universidad Autónoma de Madrid (UAM), 28029 Madrid, Spain

Deadline for manuscript submissions:
closed (31 May 2023)

Message from the Guest Editor

Alzheimer's disease (AD) is the most common form of dementia, with an alarmingly increasing prevalence in the context of an aging population and without any effective treatment currently available. Oxidative stress is the imbalance between the generation of reactive oxygen/nitrogen species and the ability of the antioxidant defenses of the organism to neutralize them. Oxidative stress and mitochondrial dysfunction are early features found in AD, and they have been related to the disease physiopathology. Elderly and dysfunctional mitochondria are eliminated by autophagy in a process named mitophagy, which has been proven to be altered in neurodegenerative disorders. This Special Issue will collect research works and review articles on topics including (but not limited to) the following:

- Mechanistical studies correlating oxidative stress with AD pathology;
- Mitochondrial dysfunction in AD;
- Epidemiological studies of oxidative stress markers in AD patients;
- Antioxidant strategies as a therapeutical approach in AD models and patients;
- Study of environmental factors that affect AD-related oxidative stress.

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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, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/antioxidants
antioxidants@mdpi.com
𝕏@antioxidants_OA