

Special Issue

Natural Antioxidants in Neurodegeneration and Aging Processes

Message from the Guest Editors

Alzheimer's disease is a progressive neurodegenerative disorder representing the leading cause of dementia worldwide. Oxidative stress plays a crucial role in the pathogenesis insofar as it leads to the functional impairment of cellular proteins and protein aggregation, resulting finally in the disturbance of the protein quality control, i.e., the proteostasis network. Mitochondrial homeostasis as defined by the rates of fusion, fission, mitophagy and mitochondrial biogenesis have a high impact on neuronal functionality and thus on the prevention or development of Alzheimer's disease. As guest editors, we invite you to contribute to this Special Issue, whose focus will be the role of oxidative stress and antioxidants in the pathogenesis of Alzheimer's disease and its prevention. Emphasis should be put on the proteostasis network and/or mitochondrial dynamics and functionality as affected by oxidants/antioxidants. We are also particularly interested in papers that explore how the concept of hormesis may affect public health strategies that prevent and/or slow the onset and reduce the severity of Alzheimer's disease.

Guest Editors

Prof. Dr. Uwe Wenzel

Prof. Dr. Edward J. Calabrese

Prof. Dr. Vittorio Calabrese

Deadline for manuscript submissions

closed (30 September 2023)



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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

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