



an Open Access Journal by MDPI

Mitochondrial Dysfunction and Immuno-Oxidative Stress in Neuropsychiatric Disorders

Guest Editors:

Dr. Fei Du

Harvard Medical School, 25
Shattuck Street, Boston, MA
02115, USA

Dr. Can Zhang

Harvard Medical School, 25
Shattuck Street, Boston, MA
02115, USA

Dr. Jie Wang

Wuhan Institute of Physics and
Mathematics, Chinese Academy
of Science, Wuhan 430071, China

Deadline for manuscript
submissions:

closed (10 March 2024)

Message from the Guest Editors

Evidence suggests that metabolic changes associated with immuno-oxidative pathway, including mitochondrial dysfunction, redox dysregulation, oxidative stress and neuroinflammation, play an important role in the pathophysiology of numerous neuropsychiatric diseases and aging-associated brain disorders. The interaction between these processes disrupts local neuronal circuits and leads to disconnection between distant brain regions, ultimately impairing information processing and affecting cognitive function. However, the molecular mechanisms and alternated metabolisms associated with these abnormalities, particularly in relation to immuno-oxidative pathways in the brains of neuropsychiatric patients, and the ways in which they change over time are not yet fully understood. This Special Issue aims to advance our understanding of these underlying mechanisms and explore novel therapeutic approaches that can alleviate the burden of these disorders.



mdpi.com/si/180258

Special Issue



an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)

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](https://twitter.com/antioxidants_OA)