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Mitochondrial Dysfunction and Immuno-Oxidative Stress in Neuropsychiatric Disorders

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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.

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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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