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Energy Disorders in Neurodegenerative Diseases

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Message from the Guest Editors

It is now believed that one of the causes of central neuron damage is increasing oxidative stress. The reason for its generation is the central deposition of pathological proteins such as amyloid-beta in Alzheimer's disease, alpha-synuclein in Parkinson's disease, and huntingtin in Huntington's disease. Abnormal levels and/or structure of pathological proteins are often the result of genetic variants in the genes encoding them. In addition, abnormal proteins level may lead to disturbances in energy homeostasis. The level of endogenous such as glutathione (GSH) or superoxide dismutase 1 (SOD1) and exogenous antioxidants are also important for maintaining energy homeostasis. Although it is known oxidative stress accompanies many diseases and is associated with the processes of normal aging. However, we do not know for sure whether oxidative stress is an effect or the main cause of the aging changes and diseases of the central nervous system. This research topic will be presented in preclinical and clinical studies showing the participation of energy disorders in the manifestation and development of common neurodegenerative diseases.

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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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