



Metabolic Alterations in Neurodegenerative Diseases and Treatment Options

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Message from the Guest Editors

Metabolic and energetic disturbances have recently been considered not only as a consequence, but also as one of the causes of neurodegeneration. A well-known attribute of neurodegenerative diseases is the progressive loss of neurons. Despite the fact that the causes of these diseases can be polyetiological, they have a wide range of similar molecular and cellular pathophysiological processes, namely protein aggregation, glutamate toxicity, calcium, proteolytic and others, associated with aging.

Neurodegenerative diseases are age dependent, so their development is closely related to common aging mechanisms and metabolic lesions. Cell cultures, animal models, and human studies show close connection between neurodegeneration and metabolic alterations, namely, obesity, glucose metabolism disturbances, and impairments in hormone secretion, including melatonin, leptin, ghrelin, etc.

This Special Issue aims to highlight the numerous metabolic changes in neurodegenerative diseases and related current therapeutic approaches.





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Message from the Editor-in-Chief

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