

Special Issue

State of the Art: Prerequisites, Prevention and Treatment of Neurodegenerative Diseases

Message from the Guest Editors

Progress in modern medicine leads to an increase in human lifespans. However, along with this advantage, it also leads to an increasing rate of age-related diseases. Among them, neurodegenerative disorders leading to the development of dementia seem to have the most burden on patients and caregivers. The hallmark of neurodegenerative disorders is their incurability; besides, most of them are difficult to diagnose and distinguish from one another, especially at early stages. Furthermore, some neurodegenerative disorders may last asymptotically for years and decades. Middle age is widely held as a critical period for the launch of pathological processes, but the question of when exactly neurodegeneration begins to develop and what contributes to its onset still remains open. The risk factors of consequent cognitive impairment later in life and accelerated brain aging could be formed already in the early postnatal period of life, during the completion of brain development. Thus, it determines the relevance of studies directed on investigations of risk factors, early diagnosis, prevention and treatment of neurodegenerative disorders.

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