

Special Issue

Neurobiology of Aging and Aging-Related Disorders

Message from the Guest Editors

Brain ageing is a complex process of all vertebrate organisms and is influenced by systemic, genetic, and environmental factors. In course of ageing, the brain undergoes general morpho-physiological changes that include shrinkage of brain mass and myelin, decline of synaptic connections, and decreased neurotransmitter release. These modifications are associated with cognitive decline in information processing speed, memory, reasoning, and executive function. Furthermore, ageing is one of the major contributing factors for neurodegenerations and other brain diseases. Much of what we know about the impact of ageing on brain comes from model organisms, which have been instrumental to identify factors that cause and modulate the ageing process. In this collection, we aim to address various aspects of the neurobiology of ageing and ageing related disorders, including a) new experimental approaches to modulate the ageing process with consequences on brain morpho-physiology; b) the identification of genetic and environmental factors related to brain ageing; and c) new imaging techniques and bioinformatics approaches to detect changes in the brain during ageing.

Guest Editors

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