



## Neurodegeneration in Different Pathophysiological Conditions

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Deadline for manuscript  
submissions:

**closed (30 April 2024)**

### Message from the Guest Editors

It is now generally accepted that regular physical activity promotes the release of circulating myokines and metabolites during muscle contraction, which can influence neuronal functions, thus modifying neurotransmission in different brain regions and improving cognitive processes such as learning and memory. However, the involvement of multiple cellular and molecular mechanisms hampers the development of strategies to counteract and/or diagnose the cognitive decline underlying neurodegenerative diseases, underscoring the need for further investigations that enable the development of preventive approaches to minimize the impact of neurodegeneration. Therefore, this Special Issue aims to summarize the most recent evidence on the molecular mechanisms underlying neurodegeneration to identify new potential diagnostic, therapeutic, and preventive strategies to counteract cognitive decline.





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