



## Epigenetic Regulation in Neurodegeneration Disease

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### Message from the Guest Editor

Neurodegeneration disorders are devastating diseases that cause symptoms ranging from movement and psychiatric disturbances to cognitive decline and might have fatal consequences. Despite decades of intensive research, an effective cure is not available for most neurodegenerative diseases; therefore, a better understanding of the molecular basis of their pathogenesis is imperative. Despite the diversity of affected brain structures and the multifaceted pathogenesis, some pathological processes seem to be common for several neurodegenerative disorders. One of these pathogenic mechanisms is epigenetic dysregulation, an alteration in the structure and functional state of chromatin that can be the consequence of altered DNA methylation patterns, or dysregulated histone post-translational modifications, among others. As the state of chromatin regulates all DNA-templated processes, including gene transcription, it has widespread effects on various cellular mechanisms. The aim of this Special Issue is to shed light on recent advances in research into the epigenetic background of neurodegenerative disorders and the potential applicability of epigenetic therapy.





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