

## Special Issue

# Epigenetic Regulation in Neurodegeneration Disease

### 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.

### Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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