

Special Issue

Neuroepigenetic: From Bench to Bedside

Message from the Guest Editors

The crucial role of epigenetic modifications of DNA and histones in understanding the molecular basis of complex phenotypes has been undoubtedly recognized in various diseases. It is only reasonable to assume the same importance of epigenetic aberrations in the pathophysiology of neurological diseases. Indeed, neuroepigenetics is emerging as a hot topic in identifying the mechanisms of neurodegeneration, including in Alzheimer's and Huntington's disease, multiple sclerosis, as well as in blinding conditions such as age-related macular degeneration, glaucoma, or retinitis pigmentosa. The association of epigenome modifications with neurodegeneration has generated an exciting field of novel therapies based on epigenetic regulation with currently more than fifty ongoing clinical trials.

This Special Issue, "Neuroepigenetics: from bench to bedside," will cover a selection of recent advances in understanding the role of epigenetics in neurodegenerative disease and review current knowledge in epigenetically-driven disease mechanisms and the development of novel treatment strategies.

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