Special Issue

Clearing Pathogenic Proteins from the CNS to Treat Neurodegenerative Diseases

Message from the Guest Editors

As most neurodegenerative diseases are proteinopathies, reducing pathogenic proteins from the brain tissue remains the most straightforward therapeutic approach. Inhibiting the production of these pathogenic proteins or increasing their clearance have shown promise in animal models. While most clinical trials failed to date, alternative methods are needed to promote the clearance of pathogenic proteins in order to modify disease progression. Recently, alternative therapeutic interventions such as albumin exchange in Alzheimer's disease and antisense oligonucleotide intrathecal administration in Huntington's disease, open a door to new ways of clearing pathogenic proteins from the CNS. These approaches suggest that it is possible to modify disease progression acting through the different compartments present in the CNS, giving rise to the development of new technologies that enable the development of innovative therapies.

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