Joint Special Issue

Synthesis and Identification of Small Compounds Active in Neurodegeneration

Message from the Guest Editors

Neurodegenerative disorders affect millions of people worldwide and are increasingly recognized as one of the most prevalent disorders. Despite substantial effort to advance the understanding of the etiology and potential treatment of neurodegeneration, information is still incomplete because many potential mechanisms are implicated in neurodegenerative pathology such as neuroinflammation and disequilibrium in protein homeostasis, toxic exposure and stress. However, very few drugs have been successful for the treatment of CNS diseases, and the therapeutic efficacy is greatly limited by many factors such as ineffective transport of drugs across the Blood-Brain Barrier (BBB). Different molecular properties are fundamental to cross the BBB, and optimization of these parameters still remains a significant challenge in the development of neurological therapeutics. The aim of this Special Issue is to spot recent advances in "Synthesis and Identification of Small Compounds Active in Neurodegeneration", highlighting recent identification of synthetic as well as small, natural-based molecules regarding the use of nanomaterials as versatile drug transport systems across BBB.

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