

Special Issue

Current State-of-Art of Extracellular Vesicles for Targeting Gene Therapy in Neurological Disorders

Message from the Guest Editors

Extracellular vesicles (EVs) are achieving considerable accomplishments in targeted gene therapy, opening a new frontier to develop gene delivery strategies for neurological disorders. In addition to the cargo of different proteins, lipids, and nucleic acid, EVs isolated from patients diagnosed with Alzheimer's and Parkinson's disease and recently also multiple sclerosis show an altered genetic cargo in the form of miRNA. This has boosted the EVs' role as biomarkers in the diagnosis of human neurological diseases. However, so far, most EVs studies have been performed using in vitro and in vivo models. Standardization of methodologies and testing across human neurodisorders still represent key challenges. This Special Issue aims to harvest the latest advanced studies of EVs in diagnosing and treating central nervous system diseases, sharing knowledge and data with readers and scientists working in this discipline to foster an effective and safe clinical translation of these unique intercellular delivery vehicles.

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