

## Special Issue

# Therapeutic Applications of Neural Stem Cells & Extracellular Vesicles

### Message from the Guest Editor

Biologics involving neural stem cells (NSCs) and extracellular vesicles (EVs) are transforming therapeutic approaches for neurological disorders. Over the past five years, neural stem cell-derived progeny and extracellular vesicles have made their way to clinical trials as potential treatments for intractable diseases, such as Parkinson's disease, Alzheimer disease, dementias, amyotrophic lateral sclerosis, stroke, traumatic brain injury and spinal cord injury. However, there still remain critical challenges in translating these therapies to patients. In this Special Issue, we will address the current progress and challenges in the development of therapeutic NSCs and EVs: 1) methods for controlling the identity, purity and potency of these biologics, in order to produce optimal therapeutic effects; 2) their isolation, perpetuation and characterization; 3) their impact of cellular composition and delivery methods on efficacy and translation from animal models to patients.

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### Guest Editor

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