

Special Issue

Advances in Neural Stem Cell Medicine

Message from the Guest Editor

This Special Issue aims to highlight cutting-edge research and emerging developments in neural stem cell biology, with a particular focus on its transformative potential in regenerative medicine and the treatment of neurological disorders. As our understanding of neural stem cells (NSCs) continues to evolve, so too does the promise of novel diagnostics and therapeutics for conditions ranging from traumatic brain injuries to complex neurodegenerative diseases such as Alzheimer's, Parkinson's, and multiple sclerosis. We invite contributions that address key biological mechanisms, innovative applications, and translational challenges in this rapidly advancing field. Topics of interest include, but are not limited to, the following: Neural stem cell characterization and lineage specification; Mechanisms of neurogenesis and neural repair; Clinical translation and therapeutic strategies using neural stem cells; Neural stem cell-based modeling of neurodegenerative diseases; Stem cell-derived exosomes and cell-free therapies.

Guest Editor

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