

Special Issue

Spinal Cord Injury

Message from the Guest Editors

We are pleased to introduce this Special Issue on "Neural Stem Cell Therapies: Cutting-Edge Developments." Neural stem cells (NSCs) are early-stage nervous system cells capable of self-renewal and differentiation into neurons and glia. Their transplantation can replace neurons lost to neurodegeneration or trauma and facilitate axonal regeneration. NSC-derived glia may also replace dysfunctional oligodendrocytes in demyelinating disorders. In gene mutation disorders, NSC grafts can secrete normal gene products to enhance cerebral metabolism. Benefits arise from grafting neurons from embryonic stem cells (ESCs) or induced pluripotent stem cells (iPSCs) or through directed differentiation from mature cells, each with its own challenges. Many NSC types are entering clinical trials for conditions like Parkinson's disease, spinal cord injury, and epilepsy. This Special Issue will explore these strategies and their translation to clinical trials. Given the complexity, achieving breakthroughs will require time and rigorous pre-clinical modeling.

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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