Special Issue

Recent Advances in Stem Cell Therapy for Brain Disease

Message from the Guest Editors

Stem cell therapy is a branch of regenerative medicine that aims to enhance the body's repair machinery via stimulation, modulation, and regulation of the endogenous stem cell population, and/or by replenishing the cell pool, contributing toward tissue homeostasis and regeneration. Medical treatments are already having an impact on patients in a clinical setting. The flexibility and adaptability of these cells make them especially exciting new therapeutic options, both for rebuilding damaged brain tissues and for combatting neurodegenerative diseases. In recent decades, researchers found significantly improved outcomes for mesenchymal stem cell-treated patients compared with those receiving sham treatment. MSCs are well known for their homing capacity, immunomodulatory effects, and secretion of paracrine factors to repair tissues and induce functional recovery. In fact, the effect of paracrine modulation through the secretion of bioactive molecules, including lipids, proteins, free nucleic acids and different types of extracellular vesicles (EV), is well documented.

Guest Editors

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