Special Issue

Stem Cell Therapy for Neurological Disorders

Message from the Guest Editor

Neurodegenerative diseases are characterized by the progressive loss of neurons and glial cells. In this context, the peculiar properties of stem cells are opening to potential therapeutic strategies for the treatment of severe neurodegenerative disorders, for which the absence of effective treatment options leads to an increasingly socio-economic burden. In particular, stem cells represent a useful option since they provide tissue restoration through the substitution of damaged neuronal cells with exogenous stem cells, as well as creating a neuro-protective environment through the release of bioactive molecules for healthy neurons. Currently, the introduction of new technologies in the field of stem cells and the implementation of alternative cell tissue sources are revealing exciting frontiers in this area of research. The aim of this Special Issue is to provide an update to the current knowledge concerning the source and administration routes of stem cells, and to review the light and shadows of cell replacement therapy for the treatment of the main neurodegenerative disorders.

Guest Editor

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Editor-in-Chief

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