

Special Issue

Roles of Stem Cells in Nerve Regeneration

Message from the Guest Editors

Stem cells, neural or adult mesenchymal or iPSC, have great translational potential and offer a powerful tool for basic research and regenerative medicine. They have been shown to grow brain organoids to model brain disorders, replace CNS neurons or Schwann cells, improve nerve regeneration, through direct conversion into specific neuronal cell types, capable to be included in existing neural circuits, or into myelinating cell lines. Endogenous or exogenous stem cells exert their potential also through the production of local neurotrophic factors for the sustenance of residual healthy neurons or induction of axonal growth and circuitry restoration. However, important basic biological questions in regeneration and repair are still unanswered. We welcome experts in the field to contribute research papers and critical reviews on the various facets of stem cell-ness including new therapeutic pharmacological strategies.

Guest Editors

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