

Download Neural Transplantation Cns Neuronal Injury And Regeneration

Hypoxic-ischemic brain injury is a significant cause of morbidity and mortality in the adult as well as in the neonate. Extensive pre-clinical studies have shown promising therapeutic effects of neural stem cell-based treatments for hypoxic-ischemic brain injury.

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After brain injury, neuroblasts generated from endogenous neural stem cells migrate toward the injured site using blood vessels as a scaffold, raising the possibility of reconstructing blood vessel network scaffolds as a strategy for promoting endogenous neuronal regeneration.

1. Introduction. This review is a comprehensive attempt to report technologies related to ex vivo models and lab-on-a-chip devices that are used to model regeneration processes in the peripheral nervous system (PNS) and central nervous system (CNS).