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Molecular approaches to enhance functional recovery for traumatic CNS injuries

Spinal cord injury (SCI) is a devasting condition that usually causes permanent damage resulting in life-long disability. SCI is considered the leading cause of paralysis in road accidents, sports activities, and other free fall injuries. SCI pathophysiology involves a cascade of events, and achieving functional recovery involves interactions among many cellular components, including neutrophils, glia, neurons, endothelial cells, and leukocytes. The cellular process that enhances functional recovery includes axonal regeneration, remyelination, neuroplasticity, and neuroprotection in SCI preclinical models. However, considering the SCI complications, a single target is not sufficient for its treatment. The current issue focuses on the strategies, cellular and molecular approaches to enhance neuroprotection after SCI. The special issues invite research and review articles in the field of SCI or CNS traumatic injury.

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