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Pathophysiology and Treatment of Spinal Cord Injury

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Deadline for manuscript
submissions:

closed (15 December 2023)

Message from the Guest Editor

Spinal cord injury (SCI) is a devastating event leading to paresis, sensory, autonomic, respiratory, and bowel disturbance that is permanent. There is no established treatment except for surgical procedures to restabilize the spine and decompress the spinal cord in the case of traumatic SCI. Whereas rehabilitative therapies are implemented after the acute treatments, the injured spinal cord exhibits only a small degree of plasticity and functional recovery.

The development of a new treatment is important, particularly to target its acute phase to influence the consequences thereafter. Researchers are discovering several points of action to suppress secondary damage in acute SCI, modify the microenvironment, and induce more plasticity toward functional recovery. This Special Issue focuses on newly developing fundamental treatments, including rehabilitative interventions and preventive measures.

We are waiting for papers from the field of Neurology and Neurosurgery, Orthopaedic surgery, Urology, and Physical and Rehabilitation Medicine.





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