# **Special Issue**

## Mechanisms of Neuromodulation and Rehabilitation after Spinal Cord Injury

## Message from the Guest Editors

Multiple studies have demonstrated that spinal cord neuromodulation, together with rehabilitation, enables volitional motor control of previously paralyzed motor functions in humans diagnosed with severe traumatic spinal cord iniurv(SCI). However, there is a limited understanding of the underlying electrophysiological mechanisms of action, and the neural structures of the spine, the mechanisms of generating volitional control over tonic and rhythmic patterns of spinal motor outputs using epidural stimulation after SCI are generally unknown. Limited evidence has shed light on the spinal circuits involved in posture and locomotion and their reorganization after injury, nevertheless the role of different components and specific spinal pathways remain unclear. The Special Issue focuses on the mechanisms involved in spinal cord reorganization after injury, and more specifically, insight into circuitry-level mechanisms that underlie spinal cord neuromodulation and neurorehabilitation.

## Guest Editors

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## Deadline for manuscript submissions

closed (20 November 2020)



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### Editor-in-Chief

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