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Brain and Spinal Cord Electrical Stimulation

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Message from the Guest Editor

Spinal cord stimulation is the most common modality, used for the treatment of neuropathic pain of peripheral origin, and in ischemic pain. Motor cortex stimulation using brain surface electrodes was introduced in 1991, and is used to treat pain from some strokes and damage to the trigeminal nerve. Functional electrical stimulation (FES) and its application in the management of spinal injury and post-stroke care is well established. A number of external and implantable devices have been designed and manufactured to restore useful functions. Applications and outcomes range from enhancing physical rehabilitation after such injuries to the restoration of upper- and lower-limb function, bladder function, and chest ventilation after complete spinal cord injury.

This Special Issue is dedicated to highlighting exciting research into key aspects of therapeutic electrical stimulation, its mechanism of action, as well as novel therapeutic stimulation paradigms that may have positive effects on the treatment of neurological conditions, with the ultimate goal of identifying truly effective treatments that have potential for therapeutic applications.

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Message from the Editor-in-Chief

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