Special Issue

Applications of Neuromodulation on Pain and Motor Learning

Message from the Guest Editors

Neuromodulation is a slightly specific term coined in the 1960s which refers to techniques that aim to improve the signs and symptoms of patients by stimulating or inhibiting both the central and peripheral nervous systems. According to the International Neuromodulation Society, neuromodulation today employs advanced medical device technologies to enhance or suppress activity of the nervous system for the treatment of disease. These technologies include implantable as well as non-implantable devices that deliver electrical, chemical or other agents to reversibly modify brain and nerve cell activity. There are several possibilities to apply neuromodulation, and its devices are the fastest-growing segment of the overall medical device industry. The number of novel neuromodulation devices approved by the FDA grew 35% in 2007. Therefore, it seems pertinent to collect information on this current topic. The objective of this Special Issue is to bring together high-quality clinical articles and recent reviews that can provide further support to the use of these therapies both to reduce pain (especially chronic pain) and to improve motor re-learning.

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Deadline for manuscript submissions

closed (30 May 2021)

Brain Sciences

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.6
Indexed in PubMed

mdpi.com/si/49847

Brain Sciences
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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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