



Updates on Neurostimulation: From Mechanistic Principles to Clinical Applications

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Message from the Guest Editors

The physiological mechanisms underlying neurostimulation are not yet fully understood. Measuring neurophysiological responses to stimulation (magnetoencephalography (MEG), functional magnetic resonance imaging (fMRI), or electroencephalography (EEG), electromyography (EMG), among others) can help us to better understand the neurological mechanism and main factors contributing to better clinical outcomes. Computational physics has also permitted quantifying and determining the interaction of physical quantity (i.e., induced electric field) on the target neural elements as the basis of the neuromodulation process, while optimizing the simulation parameters.

This Special Issue welcomes advances in understanding the mechanistic foundations of neurostimulation, proposals of novel or enhanced methodologies, and clinical applications through *in vivo*, *in vitro*, *ex vivo*, *in silico* and simulation studies. Original research articles and systematic reviews/meta-analyses are welcomed.





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