



## Advances in Neurostimulation: Understanding of the Mechanisms and Clinical Applications

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### Message from the Collection Editors

Brain stimulation methods have been part of the clinical routine in psychiatry for several years, offering a therapeutic alternative to pharmacological and psychotherapeutic treatments. Whether they are noninvasive brain stimulation techniques, or more invasive techniques, they demonstrate efficacy in several psychiatric disorders, including when those disorders have proven resistant to the current treatment algorithms.

However, the physiological mechanisms underlying neurostimulation are not yet fully understood. Exploring the effects of these techniques with brain activity measures (functional magnetic resonance imaging (fMRI), positron emission tomography (PET) or electroencephalography (EEG), etc.) or biological measures (hormones, neuroplasticity, inflammation, etc.) can help us to better understand the neurobiological bases of these methods.

Besides neuropsychiatry, this Special Issue also seeks to promote new effective clinical applications in brain stimulation, such as personality or somatic disorders, and advances in understanding of their mechanisms, including studies with healthy subjects.





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