



## Advances in the Study of Cortical Excitability, Connectivity and Plasticity by Using TMS-EEG and Other Neurophysiological Techniques

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### Message from the Guest Editors

The combination of techniques designed to provide readouts of the electrical activity of the brain (electroencephalography, magnetoencephalography) or to transiently interact with cortical circuitry (transcranial magnetic or electrical stimulation) provides powerful methods to assess local cortical responses and characterize causal interactions between distant brain areas. While some working principles of these techniques have been elucidated, much work is still needed to frame them in a broad physiological context and in the investigation of brain diseases. In this view, the aim of this Special Issue is to explore advancements in the study of cortical physiology and pathophysiology by using TMS-EEG and other cutting-edge neurophysiological techniques. We invite methodologically rigorous contributions in the form of original research articles, systematic reviews, meta-analyses, and case reports investigating normal physiology, as well as central nervous system disorders.





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## Message from the Editor-in-Chief

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