Modern Developments in Transcranial Magnetic Stimulation (TMS) – Applications and Perspectives in Clinical Neuroscience

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Message from the Guest Editors

Transcranial magnetic stimulation (TMS) is being increasingly used in neuroscience and the clinical setup. Modern advances include but are not limited to the combination of TMS with precise neuronavigation as well as the integration of TMS into a multimodal environment, e.g., by guiding TMS application using complementary techniques such as functional magnetic resonance imaging (fMRI), electroencephalography (EEG), diffusion tensor imaging (DTI), or magnetoencephalography (MEG). Furthermore, the impact of stimulation can be identified and characterized by such multimodal approaches, helping to shed light on basic neurophysiology and TMS effects in the human brain. Against this background, the aim of this Special Issue is to explore advancements in the field of TMS considering both investigations in healthy subjects as well as patients. Submissions of research using neuronavigated TMS, aiming at technical developments of TMS, and using multimodal approaches with TMS as an integral part are particularly encouraged. We invite contributions in the form of original research articles, review articles, and case reports.

Special Issue

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Message from the Editor-in-Chief

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