

an Open Access Journal by MDPI

Neuromodulation of Cortical Networks in Neurological and Neuropsychiatric Disorders: Potential Clinical Indications and the Biophysiological Impact of Stimulation

Guest Editors:

Dr. Maja Rogić Vidaković

Laboratory for Human and Experimental Neurophysiology, Department of Neuroscience, University of Split School of Medicine, 21000 Split, Croatia

Dr. Joško Šoda

Signal Processing, Analysis, and Advanced Diagnostics Research and Education Laboratory (SPAADREL), Faculty of Maritime Studies, University of Split, 21000 Split, Croatia

Dr. Joshua E. Kuluva

Piedmont Neuroscience Center, Oakland, CA 94610, USA

Deadline for manuscript submissions:

closed (23 February 2024)

Message from the Guest Editors

Neuromodulation of cortical networks following electrical and magnetic stimulation techniques has been proposed as a therapeutic tool to assist in treating individuals with neurological and neuropsychiatric disorders. Stimulating cortical networks can enhance neuroplasticity, act as a neuro-rehabilitative tool, or recalibrate aberrant neural pathways. The question is how brain stimulation results in lasting changes in cortical excitability, how brain dynamics evolve during stimulation, how we can quantify the excitability changes in human cortical networks, and how these changes translate into improved clinical outcomes. <false,>The aim of the current Special Issue is to gather the latest high-quality research on the use of neuromodulation following electrical and magnetic stimulation neurological and neuropsychiatric disorders, focusing on movement disorders, spinal cord injury, epilepsy, stroke, aphasia, chronic pain, tinnitus, migraine, depression, anxiety, hallucinations, addiction, and memory disorders. <false,>Authors are invited to submit original research articles, reviews, or protocol papers outlining new and promising techniques and stimulation protocols.













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Stephen D. Meriney Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA 15260, USA

Message from the Editor-in-Chief

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYNDEX, CAPlus / SciFinder, and other databases.

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2023).

Contact Us