Special Issue

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

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. 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 in 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. Authors are invited to submit original research articles, reviews, or protocol papers outlining new and promising techniques and stimulation protocols.

Guest Editors

Dr. Maja Rogić Vidaković

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

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Brain Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
brainsci@mdpi.com

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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.

Editor-in-Chief

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

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