



Modulatory Effects of Deep Brain Stimulation on Distributed Brain Networks

Guest Editor:

Dr. Andreas Horn

Department of Neurology,
Movement Disorder and
Neuromodulation Unit, Charité-
Universitätsmedizin, Berlin,
Germany

Deadline for manuscript
submissions:

closed (25 July 2019)

Message from the Guest Editor

The field of deep brain stimulation (DBS) is currently experiencing a paradigm-shift from studying impact on local brain tissue toward the analysis of modulatory effects on distributed brain networks. With the rise of modern noninvasive neuroimaging methods, this local-to-global shift bears promising potential to better understand brain disorders, brain function and to translate novel concepts into clinical practice. Already, network-based targets that may guide surgical planning and DBS programming are being introduced and prospectively validated with the potential to revolutionise the field.

In this Special Issue, we will discuss the indications, potentials, efficacy and validation of network-based brain stimulation concepts with a special focus on DBS. These include the combination of DBS imaging with resting-state functional magnetic resonance imaging, diffusion-weighted imaging based tractography and electrophysiological measures such as electroencephalography, magnetoencephalography and local field potential recordings.





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, PSYINDEX, CAPlus / SciFinder, and other databases.

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.9 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2024).

Contact Us

Brain Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/brainsci
brainsci@mdpi.com
[X@BrainSci_MDPI](https://x.com/BrainSci_MDPI)