

Special Issue

Biomarkers, Neuromodulation and Neuroregulation for Diagnosis and Treatment of Brain Disorders

Message from the Guest Editors

Brain disorders are a major global health challenge. Novel neuromodulation and neuroregulation strategies—from non-invasive techniques like neurofeedback, transcranial magnetic and electrical stimulation to invasive approaches such as deep brain stimulation—offer promising research and clinical avenues. This Special Issue provides a multidisciplinary platform bridging basic and translational neuroscience with experimental and clinical neuromodulation and neuroregulation in brain disorders. It will highlight recent advances, emerging concepts, and methodological innovations for understanding and modulating dysfunctional brain circuits across neurological and neuropsychiatric conditions. Original research articles and reviews are welcome. Research areas include: neural circuit dysfunction; molecular and cellular mechanisms of neuroplasticity; non-invasive and invasive neuromodulation techniques; neuroimaging and electrophysiological biomarkers; computational and systems neuroscience; closed-loop and adaptive stimulation systems; multimodal biomarker integration; translational and clinical studies. We look forward to your contributions.

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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