Special Issue

Emerging Technologies and New Applications of Deep Brain Stimulation in Preclinical Research and Clinical Therapy

Message from the Guest Editors

Deep brain stimulation (DBS) has been widely used to treat various neurological and psychiatric disorders, including motor and non-motor conditions. The technological innovations in high-resolution electrodes, control of DBS, hardware and software, and batteries have made DBS a standard clinical procedure for refractory patients and conditions. Moreover, recent advances in neuromodulation using non-electrical modalities such as light and ultrasound have presented new opportunities for the use of DBS. In this Special Issue, we would like to cover the emerging technologies and new applications of DBS, including but not limited to modeling preclinical research using animal models and translational applications.

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