



New Advances in Functional Neurosurgery

Guest Editor:

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Message from the Guest Editor

There is a wide spectrum of pathologies, such as movement disorders, epilepsy, trigeminal neuralgia, hemifacial spasm and other neurovascular conflict syndromes, spasticity, chronic neuropathic pain, and psychiatric disorders, that can be treated by functional neurosurgeons. Functional neurosurgeons modify the functioning of the nervous system to improve the quality of life of patients affected by neurological disorders. They strictly collaborate with other professional figures, such as neurologists, neuropsychologists, psychiatrists, anesthesiologists, and bioengineers, to develop the best therapeutic strategy for each specific patient. They can target different brain regions in order to obtain an improvement in a patient's neurological functioning via neuromodulating complex brain or spine pathways. Furthermore, they can treat excruciating conditions, or remove an epileptogenic zone in the brain, resulting in the disappearance of seizures. This field has gained renewed interest in the last few years due to different technological advances. The aim of this Special Issue is to collect outstanding papers in order to focus on advances in all fields of functional neurosurgery.





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Message from the Editor-in-Chief

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