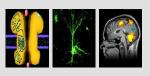


## IGSN/RDN CONFERENCE



## CHARACTERIZATION AND RESCUE OF NEURONAL DYSFUNCTION

**April 25<sup>th</sup> - 26<sup>th</sup>, 2023** 

Session 4 Neurorehabilitation and rescue of nervous system dysfunction

## YASIN TEMEL

Department of Neurosurgery, Maastricht University Medical Center, The Netherlands

## Deep brain stimulation to treat severe neurological and psychiatric dysfunction

Deep brain stimulation (DBS) is a popular treatment for severe neurological and psychiatric disorders. Patients with Parkinson's disease, epilepsy, obsessive-compulsive disorder and Tourette syndrome benefit from DBS and their quality of life gets improved substantially. To date, more than 200 000 patients have received DBS brain implants. The mechanism of action is complex and involves desynchronization, local inhibition, remote excitation, and neurochemical changes. In this presentation, I will give an update about the field of DBS.



