

## OptoDBS 2026 – Poster List

No Board	Presenter's / contact	Title
1	Wenlei Zhang Haifeng Jiang	Optimized deep brain stimulation bidirectionally modulates drug-seeking behavior by targeting distributed subnetworks
2	Carlotta Schneider	Multimodal assessment of sleep-wake perception in insomnia disorder
3	Emma Anderson	Therapeutic Ventral Capsule Stimulation Suppresses Orbitofrontal Activity in OCD
4	Bo Yin	Estimating medication status in Parkinson's disease from stimulation-evoked local field potential responses via a large language model
5	Ed Hasanovic	RNA sensing for circuit tracing and functional interrogation of spinal circuits in Cerebral Palsy
6	Jojo Vanhoecke	Interactive oscillatory normative connectomes with ConnectoMEG toolbox
7	Kevin Wilkins	Image-Guided Deep Brain Stimulation of the Nucleus Basalis of Meynert for Cognitive Impairment in Parkinson's Disease: Initial Human Observations
8	Alessia Cavallo	Differential effects of movement and rest-aligned STN-DBS on motor output and brain activity in Parkinson's disease
9	Bowen Geng	Structural-Functional Coupling and Dynamic Functional Connectivity Predict Thalamic DBS Outcomes in Disorders of Consciousness
10	Jade Awada	A Longitudinal and Reproducible Anti-Coactivation Pattern Between the Cerebellum and the Ventral Tegmental Area Is Related to Apathy in Schizophrenia
11	Daniele Piccolo	Neuromodulation of Multisensory Processing in the Basal Ganglia of Patients with Movement Disorders
12	Alessandra Panzeri	Cardiac interoception and insular cortex: a pathway to understanding social deficits in autism
13	Vladimir Litvak	Electrophysiological Correlates of Reward Processing in the Human Ventral Tegmental Area
14	Adrian Mak	Whole-head connectivity and oscillatory signatures of DBS-induced movement slowing in cervical dystonia
15	Luchen Wang	Task-evoked thalamic phase locking indexes conscious state and effective deep brain stimulation modulation in disorders of consciousness
16	Valeria de Seta	Activity-dependent DBS controlled by neural signatures of gait alleviates locomotor deficits in people with Parkinson's disease
17	Lorina Sinanaj	Mapping Symptom-General and Symptom-Specific Targets for Transcranial Magnetic Stimulation in Schizophrenia: An Electric-Field Modeling Meta-Analysis
18	Léa Ho Dac	Effects of hippocampal transcranial temporal interference stimulation on spatial navigation in TBI patients: a study design
19	Huiying Wang Miao Pan	Exploratory clinical analysis of dual-target NAc-ALIC deep brain stimulation in treatment-resistant obsessive-compulsive disorder and treatment-resistant bipolar disorder
20	Hakimeh Pourakbari Aslsardroud	Unraveling Brain-Heart Coupling Breakdown in Parkinson's Disease: A Multi-Modal Investigation
21	Quan Zhang	Anterior insula/frontal operculum beta activity as a PU-related electrophysiological signature and potential DBS target in Tourette syndrome
22	Max Leuschner	Cell type-specific structural and functional investigation of caudal zona incerta neurons
23	Yichang Liu	Toward Task-Level Neural Control of Embodied Action: An EEG-Based Hybrid Imagery BCI for Robotic Grasp-and-Place
24	Fumiaki Yoshida	A Stable Non-Aqueous Coupling Medium for Reliable Ultrasound Neuromodulation

25	Stacey Elshove	An Open-Source Pipeline for Unbiased Quantification of Gait in Preclinical Models of Neurological Disorders
26	Ann Catherine Timpert	Dopamine and cortical facilitation during rTMS in patients with Parkinson's Disease
27	Jorge Espinoza Carrasco	Rapid sensorimotor control is shaped by temporally phased cortical-cerebellar engagement
28	Jean-Christin Beyer	Dopamine amplifies subthalamic long-latency responses to cortical stimulation in patients with Parkinson's disease
29	Vasileios Patsourakos	Optogenetic therapy to treat spasticity in a mouse model of spinal cord injury
30	Stavriani Skarvelaki	Bridging Cortex and Striatum during Motor Learning: Cortical Neuronal Network Dynamics during online non-invasive neuromodulation of Striatum
31	Öykü Okur	High-density multi-region recordings uncover motor and non-motor related modulation of beta and gamma oscillations during goal-directed reaching in mice
32	Camille Bouhour	Personalized gamma transcranial alternating current stimulation targeting memory networks in amnesic Mild Cognitive Impairment
33	Robert Graham	Cellular and synaptic mechanisms of action of deep brain stimulation of the dorsal anterior cingulate cortex for chronic neuropathic pain
34	Isla Barnard	Effects of focused ultrasound thermal neuromodulation of the mediodorsal thalamus on value-based decision making
35	Yixin Tong	Stimulation Pattern Shapes Catecholamine Dynamics During Medial Forebrain Bundle Deep Brain Stimulation
36	Tena Dubcek	Modeling Dynamical States and Nonlinear Network Stability in Epilepsy
37	Milosz Henryk Gonczaruk	Network patterns explaining the effects of invasive neuromodulation on decision-making in Parkinson's Disease
38	Elena Grazia Gado	Circadian and Multidien Dynamics of Candidate Thalamic Biomarkers for Adaptive ANT-DBS
39	Talayeh Brügger	Astrocytic Mitochondrial Responses to Blue Light: From Membrane Potential to Metabolic Shifts
40	Lucia Poma	Investigation of intracranial electrophysiological dynamics of the cortico-basal ganglia circuit in parkinsonian patients performing intraoperative speech production tasks
41	Timothy West	Intermittencies in Human Motion Reflect an Oscillatory Process of Motor Control
42	Maxime van Veghel	Deep brain stimulation mechanisms in Parkinson's Disease using in vivo optical voltage imaging
43	Ruijia Wang	Leg motor encoding and sensory feedback across the basal ganglia and Parkinson's disease therapies
44	Paula Sanchez Lopez	Closed-Loop Epidural Electrical Stimulation of the Lumbosacral Spinal Cord to Address Gait Impairments and Fluctuations in Advanced Parkinson's Disease
45	Othmna Sentissi Indrit Bègue	New Perspectives on Non-Invasive Cerebellar Stimulation in Adult ADHD
46	Shani Folschweiller	Neuronal firing during "on demand" optogenetic limbic seizure
47	Enrique Perez Martinez	Circadian corticoids and hippocampal seizures
48	Maxime Baud	Directed Cortico-limbic dialogue in the human brain
49	Francesca Barcellini	A Conserved Locus Coeruleus fMRI Signature of Brain-State Transitions across Sleep, Anesthesia, and Wakefulness

50	Alexander von Hoyningen	Two parallel cell-type specific indirect pathways through the Subthalamic Nucleus exert opposing effects in a Parkinson model
51	Huiying Wang Miao Pan	Analysis of Parameter Adjustment Strategy of Dual-Target NAc-ALIC Deep Brain Stimulation in a Patient with Treatment-Resistant Bipolar Disorder
52	Yoav Kfir	First-in-Class optoGPCR therapeutic platform for circuit-specific neuromodulation in neurological diseases