

OptoDBS 2022 – Poster List

No Board	Presenter's / contact	Title
1	Afonso Ana Rita	Charting movement correlates in subpopulations of the subthalamic area and beyond
2	Avena Alberto	Spectral somatotopy of the human subthalamic nucleus in Parkinson's disease
3	Brakatselos Charalampos	Cannabidiol modulates a schizophrenia-like bio-phenotype induced by repeated ketamine
4	Burguière Eric	Closed-loop recruitment of striatal parvalbumin interneurons prevents the onset of compulsive behaviors
5	Casey Eric	Electrical spatiotemporal dynamics in the ventral basal ganglia encode reward consumption
6	Cavallo Alessia	Subthalamic deep brain stimulation mimics basal ganglia reinforcement effects of striatal optogenetic activation in patients with parkinson's disease
7	Chalhoub Reda	Accumbal Dynamics Underlying Natural Reward Seeking Behavior
8	Chaudun Fabrice	Cellular determinant of negative reinforcement in fentanyl addiction
9	Chikermane Meera	Connectomic fingerprints of the human beta rhythm
10	Delgado Zabalza Lorena	Cell-type specific alteration of excitability in the substantia nigra pars reticulata of parkinsonian mice
11	Dzaye Ali	Cortical beta burst dynamics in Parkinson's disease
12	Espinosa Pedro	Valence-dependent synaptic plasticity in social context instructs approach/avoidance behavior
13	Friedrich Maximilian & Hartig Johannes	Optogenetic vestibular nucleus stimulation differentially restores postural and gait disruptions in a mouse model of Parkinson's disease
14	Galiñanes Gregorio	Activity in the motor cortex of the mouse is dominated by reaching endpoint position but not by arm kinematics
15	Girard Benoît	Role of VTA-dopaminergic neurons in the social motivation deficit observed in shank3 KO mice model of autism spectrum disorder
16	Gonzalez Cabrera Cristian Ariel	Therapeutic Reactivation of Dormant Neuromelanin-laden Neurons in the Substantia Nigra pars compacta by Optogenetic Stimulation
17	Gut Nadine	Challenges of DBS for gait and postural deficits - a look into the heterogeneity of midbrain motor circuits
18	Haar Shlomi	EEG based Digital Biomarkers for DBS Parameters Control
19	Harms Elsa-Henriette	The Open Penfield Atlas: Invasive Connectomics for Neuromodulation Effects
20	He Shenghong	Beta triggered adaptive deep brain stimulation during voluntary movement in Parkinson's disease
21	Hollunder Barbara & Li Ningfei	Segregating the prefrontal cortex by means of deep brain stimulation
22	Hudelle Rémi & Soriano Jan Elaine	Targeted neurotechnologies reverse autonomic dysreflexia after spinal cord injury
23	Hutson Thomas	The Neurons That Restore Walking After Paralysis
24	Jeon Hyungju	Spatiotemporal dynamics of functional clusters in basal ganglia neural circuits
25	Johnson Paul	Non-invasive circuit manipulation for the treatment of neuropsychiatric disorders

26	Kamesh Anusha	Progressive Emergence of Striatal Synaptic Alterations in Glutamate Neurotransmission in VPS35 Knock-In PD Mouse Model
27	Kathe Claudia	Wireless closed-loop optogenetics across the entire spinal cord in ecological environments
28	Kochubey Olexiy	Optogenetic stimulation of medial amygdala GABA neurons with kinetically different
29	Köhler Richard	Investigation of Movement Intention Dynamics from Intracranial EEG in Parkinson's Disease Patients
30	Koschützke Leif	Establishing Intracortical Microstimulation as a Readout to Determine Plasticity in Animal Models of DBS
31	Lepeu Gregory	Probing cortical excitability and seizure resilience under GABAergic modulation
32	Leserri Simona	Structural and functional connectivity of Deep Brain Stimulation in the Nucleus Accumbens for Treatment-Resistant Depression
33	Li Yue	Dual-action of ketamine confines addiction liability
34	Loureiro Michaël	Cellular Determinants of Subthalamic Functional Diversity
35	Masini Debora	Targeted activation of midbrain neurons restores locomotor function in mouse models of parkinsonism
36	Moerman Charlotte	STIMO-PARKINSON: Study on feasibility of Targeted epidural spinal stimulation to Improve MObility in patients with PARKINSON's disease
37	Mule Nandkiskor	Multimodal characterization of mouse subthalamic nucleus neurons
38	Neudorfer Clemens	Lead-DBS v3.0: Towards local and network-specific imaging in Deep Brain Stimulation
39	Nguyen Michael	Identifying Fiber Tracts for gait from Focal Stroke Lesions and Deep Brain Stimulation Connectivity in Parkinson's Disease
40	Nguyen Thuy Anh Khoa	Stimulation maps to assist programming of deep brain stimulation for Parkinson's disease
41	Nourizonoz Ali	BlueBerry: Wireless optogenetic feedback in freely moving animals based on real-time behavioral tracking
42	Oxenford Simon	Lead-OR: A Multimodal Platform for Deep Brain Stimulation Surgery
43	Philippides Antoine	The role of afferent input in neuroprosthetic learning
44	Piette Charlotte	Opto-activation of cortical somatostatin interneurons as an alternative therapy in Parkinson's disease
45	Pu Delin	Population level encoding of threat memory in temporal neocortex
46	Rajamani Nanditha	Symptom specific connectivity can be correlated to Deep Brain Stimulation outcome in Parkinson disease
47	Rodriguez Fernando	Exploring the Use of Convolutional Neural Networks to Improve Closed-loop Deep Brain Stimulation in Essential Tremor Patients
48	Salzmann Lena	Investigating Personalized Closed-Loop Neurofeedback for Gait Rehabilitation of Parkinson's Patients
49	Scherer Maximilian	Disruption of pathophysiological network dynamics in treatment-resistant depression by subcallosal cingulate gyrus deep brain stimulation
50	Segura Amil Alba	Programming of Subthalamic Nucleus Deep Brain Stimulation with Hyperdirect Pathway and Corticospinal Tract-Guided Parameter Suggestions
51	Sermon James	Sub-harmonic Entrainment of Cortical Gamma Oscillations to Deep Brain Stimulation in Parkinson's Disease: Predictions and Validation of a Patient-Specific Non-Linear Model

52	Soriano Jan Elaine	Targeted neurotechnologies reverse autonomic dysreflexia after spinal cord injury
53	Steiner Leon Amadeus	Resonant subcortical microcircuit activation by subthalamic deep brain stimulation
54	Telega Lidia Miguel	Dopamine release in Nucleus Accumbens is differentially modulated by Medial Forebrain Bundle DBS pulse width – a fiber photometric study
55	Tong Yixin	Optogenetic stimulation of ventral tegmental area dopaminergic neurons at medial forbrain bundle in a rodent model of depression: The effect of different stimulation patterns
56	Verdier Antonin	Optogenetic and machine learning strategies for an auditory cortical implant
57	West Timothy	When do Bursts Matter ? A study of oscillatory bursts in cortex during human movement
58	Zerbi Valerio	Causal interplay between Locus Coeruleus and network dynamics using rodent fMRI combined with optogenetics and chemogenetics
59	Masaya Harada	Activity of VTA dopamine neurons modulate orexin tone in the nucleus accumbens
60	Geraldine Cuenu	Comparative analysis of the distribution, structure and innervation of Pacinian corpuscles across different mammalian species