

OptoDBS 2024 – Poster List

No Board	Presenter's / contact	Title
1	Viviana Aureli / Quentin Barraud	Deep brain stimulation of the lateral hypothalamus to improve neurological recovery from spinal cord injury
2	Andy Bonnetto	EPFL Smart Kitchen: Quantifying cooking behavior
3	Alesia Cavallo	Subthalamic deep brain stimulation mimics basal ganglia reinforcement effects of striatal optogenetic activation in patients with Parkinson's disease
4	I-Wen Chen	High-throughput in vivo synaptic connectivity mapping of neuronal micro-circuits using two-photon holographic optogenetics and compressive sensing
5	Antoine Collomd-Clerc / Helena Puente Diaz	Unbiased identification of new deep brain stimulation targets of gait and balance disorders in Parkinson's disease
6	Inssia Dewany	Whole-brain and single-cell mechanisms underlying arm and hand function recovery in response to electrical spinal cord stimulation
7	Oyku Dinckol Perni	Insular acetylcholine release signals competition between conspecifics in mice
8	Rita El Azali	Individual differences in oral morphine seeking behavior in rats: Comparing the effects of contingent and non-contingent foot shock
9	Megan Frankowski	Neural Technology Development and Translation: Portfolio Analysis & Funding Opportunities from the BRAIN-Initiative® and NINDS
10	Moritz Gerster	Levodopa-induced spectral modulation of STN-LFPs in Parkinson's disease patients - a multi-center comparison
11	Robert Graham	Deep brain stimulation of the dorsal anterior cingulate cortex reduces the aversiveness of chronic pain by suppressing inhibition on thalamic-projecting cingulate neurons
12	Xuanjun Guo	An analysis of real-time phase and amplitude estimation with stimulation artifacts removal for closed loop neuromodulation
13	Lotfi Hadjas	Excitatory inputs drive opposite responses in PD-vulnerable and PD-resilient dopamine neurons
14	Alexander Hoyningen	Single-nuclei mRNAseq reveals distinct cell populations in the mouse subthalamic Nucleus
15	Daniel Huber	Closed-loop optogenetic manipulation of social dynamics in mice
16	Tom Hutson	Optogenetic therapy to treat spasticity in a mouse model of spinal cord injury
17	Peter Kaskan	Tracking single-unit neuronal activity triggered by intracranial stimulation in the human brain
18	Kyu Sik Kim	GLP-1 increases cognitive satiation via hypothalamic circuits in mice and human
19	Alena Kutuzova	Neurophysiology vs Neuroanatomy of Deep Brain Stimulation in Parkinson's Disease
20	Orsolya Lanyi	Cerebello-Thalamo-Cortical Network Dysconnectivity in the Psychosis-Spectrum: A Meta-Analysis of Resting-State fMRI Studies
21	Daniel Lench	White Matter Tract Integrity and Verbal Fluency Changes Following STN-DBS
22	Ziming Li	Synaptic plasticity in mice treated with single-dose psilocybin
23	Pablo Maceira Elvira	Native learning ability determines the effect of brain stimulation
24	Lucile Marion-Poll	Single-cell epigenomics in brain microsamples collected during DBS

25	Varvara Mathiopoulou	DBS-Induced Gamma Entrainment as a new biomarker for motor improvement with neuromodulation
26	Ali Nourizonoz	BlueBerry: Wireless multi-channel optogenetic for freely moving animals
27	Boglarka Orban Szigeti	Theta-burst rTMS in schizophrenia to ameliorate negative and cognitive symptoms: a double-blind, sham-controlled, randomized clinical trial
28	Martin Parent	Post-mortem analysis of Parkinson's disease brains after long-term deep brain stimulation of the subthalamic nucleus
29	Hakimeh Pourakbari Aslsardroud	Right Lateralization of Beta synchrony in the stopping network: Neurophysiological insights in Parkinson's disease
30	Stefano Scafa	A modular neural decoding framework to support robust closed-loop therapies for gait deficits in Parkinson's patients
31	Lin Shi	Verification of Lead-DBS Reconstruction: Comparison Between Lead-DBS and a Surgical Planning System
32	Deepark Singla	A system for adaptive optogenetic stimulation in striatum to restore gait in dopamine lesioned mice
33	Leon Amadeus Steiner	Towards synaptic mechanism informed DBS in the Substantia nigra pars reticulata
34	Shyam Sundar Arumugham	Deep Brain Stimulation of anteromedial subthalamic nucleus for refractory OCD: Preliminary evidence and potential neural markers
35	Johanna Petra Szabó	Intracortical mechanisms of after-discharges elicited by intracranial 50 Hz stimulation of epileptic patients
36	Mehmet Tuncer	Optimizing therapeutic pathway modelling of subthalamic deep brain stimulation in Parkinson's disease: the role of white matter lesions
37	Juliette Vivien	ReSync: a semi-automated algorithm for offline synchronization of deep brain stimulation recordings with external sensor datas
38	Sahar Yassine	Electrophysiological Differences of Speech vs. Upper Limb Movements in the Subthalamic Nucleus – motor cortex network in Parkinson's disease
39	Mathieu Yèche	Modulation of Subthalamic Nucleus activity during gait initiation in Parkinson's disease patients: a biomarker for freezing
40	Fumiaki Yoshida	Optogenetic neuromodulation enhances rehabilitation after cerebral stroke
41	Huiling Yu	Closed-loop DBS Targeting Sleep Modulation in Parkinson's Disease
42	Carmen Schaefer	Holographic stimulation of identified cortical neurons during goal directed action
43	Carmen Schaefer	Involvements of a direct cortico-cerebellar pathway in volitional movements
44	Carlos Salas-Prieto	Reduced pain thresholds in two Parkinson's disease mice models
45	Vassilis Patsourakos	Generating a cell-type-specific optogenetic therapy to treat spasticity
46	Danin Dharmaperwira	Studying brain circuits of kin imprinting
47	Giulia Casarotto	Neuronal mechanisms of social threat avoidance
48	Pedro Espinosa	Valence-dependent synaptic plasticity drives approach and avoidance behavior in social context
49	Matthias Prigge	Bridging Neuroscience and Therapy: Optogenetics deep brain stimulation in an early stage model of Parkinson's Disease
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