

OptoDBS 2026
Campus Biotech
Geneva
June 10th – 12th 2026

Wednesday June 10th 2026

Session 1: New indications for DBS

- 13:00 – 13:10: **Christian Lüscher / Andreas Horn** – Introduction
- 13:10 – 14:10: **Eric Yttri and Wolf-Julian Neumann**
From optogenetics to human deep brain stimulation: Translational opportunities for targeted state-specific neuromodulation (Keynote)
- 14:10 – 14:40: **Simon Little**
From Signals to Stimulation: Neurophysiology-Guided Adaptive DBS for PD
- 14:40 – 16:15: **Coffee Break and Poster Session**
- 16:15 – 16:45: **Edouardo Moraud**
Activity-dependent deep brain stimulation therapies to address gait and balance deficits in people with Parkinson's disease
- 16:45 – 17:15: **John Eraifej**
Nucleus accumbens deep brain stimulation in anorexia nervosa
- 17:15 – 17:45: **Carine Karachi**
Basal Ganglia Neuroanatomy: New Insights for Enhanced Functional Neurosurgery
- 17:45 – 18:15: **Yihua Ning**
14 years Clinical Research and clinical trials of "Combo-Stim" DBS Treating Opioid Addiction
- 19:00 **Speaker's Dinner**

Thursday June 11th 2026

Session 2: Methods development and new circuit models

- 08:30 – 09:00: **Welcome with Drinks and Croissants**
- 09:00 – 09:30: **Meaghan Creed**
Cellular adaptations underlying affective symptoms of chronic pain
- 09:30 – 10:00: **Brian Lau**
Fine-Tuning Neural Rhythms to Restore Mobility in Parkinson's Disease
- 10:00 – 10:30: **Jérôme Lecoq**
Brain Observatories to study brain-wide dynamics
- 10:30 – 11:00: **Phillippe Domenech**
Moving Beyond High-Frequency Deep Brain Stimulation in OCD
- 11:00 – 11:30: **Coffee Break**
- 11:30 – 12:00: **Tifei Yuan**
Ultrasound Stimulation of NAc for addiction
- 12:00 – 13:00: **Round table: M. Creed, S. Siddiqi, M. Luo, R. Lofredi**
Translational routes emerging from optogenetics
- 13:00 – 14:30: **Lunch and Poster Session**

Session 3: Noninvasive neuromodulation with ultrasound

- 14:30 – 15:00: **Jean-François Aubry**
Past, Present and Future of Transcranial Ultrasound Stimulation
- 15:00 – 15:30: **Charlotte Luff**
Optimized focused ultrasound neuromodulation of brain reward system activity and behavior
- 15:30 – 16:00: **Robert Chen**
Ultrasound Neuromodulation for Movement Disorders
- 16:00 – 16:30: **Elisa Konofagou**
Image-guided neuromodulation and vasomodulation towards the treatment of chronic pain and depression with focused ultrasound
- 16:30 – 17:00: **Coffee Break**

- 17:00 – 17:15: **Maxime Baud**
Directed Cortico-limbic dialogue in the human brain
- 17:15– 17:45: **Emilie Macé**
Brain-wide arousal responses under optogenetic control of noradrenergic tone
- 17:45 – 18:15: **Daniel Razansky**
Listening to Light and Seeing Sound in the Brain
- 18:15 – 18:45: **Lennart Verhagen**
Ultrasonic neuromodulation of human learning and decision-making

Friday June 12th 2026

Session 4: Noninvasive and Invasive Circuit Modulation

- 08:30 – 09:00: **Welcome with Drinks and Croissants**
- 09:00 – 09:30: **Shan Siddiqi**
Targeting brain circuits with TMS across symptoms and disorders
- 09:30 – 10:00: **Andreas Vlachos**
rTMS-induced synaptic plasticity: from mice to humans
- 10:00 – 10:30: **Hartwig Siebner**
Beyond Heuristics: Toward a Mechanistic Framework for Advancing TMS
- 10:30 – 11:00: **Coffee Break**
- 11:00 – 11:30: **Indrit Bègue**
Cerebellum-ventral tegmental connectivity as a personalized circuit for apathy in schizophrenia
- 11:30 – 12:00: **Jonathan Downar**
Single-Day Treatment Protocols for TMS: ONE-D, ONE-A, ONE-BD, and friends
- 12:00 – 12:15: **Wenlei Zhang**
Distributed brain network activity drives suppression of methamphetamine seeking by DBS and TMS
- 12:15 – 12:45: **Alan Mardinly**
Science's progress on optogenetic gene and cell therapies

12:45 – 13:30:

Minmin Luo

*Rapid Antidepression: Integrative Neuromodulation Approaches
(Keynote)*

13:30 – 14:30:

Farewell apero