

**OptoDBS 2024**  
**Campus Biotech**  
**Geneva, June 12-14**

**Wednesday June 12<sup>th</sup> 2024**

**Session 1 : Preclinical ideas**

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- 13:10 – 13:20 : **Christian Lüscher** – Introduction
- 13:20 – 14:20 : **Nader Pouratian - Aryn Gittis** - (Keynote)
- 14:20 – 14:50 : **Manuel Mameli** - Emotional contagion, serotonin and habenula in the regulation of resilience

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14:50 – 16:45 : ***Coffee Break and Poster Session***

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- 16:45 – 17:15 : **Andrea Kühn** - The role of chronic brain sensing technology for individualized deep brain stimulation therapy
- 17:15 – 17:45 : **TBA** – *Selected talk*
- 17:45 – 18:15 : **Alan Carleton** - Improving cognitive functions in animal models of psychiatric disorders by targeting the claustrum
- 18:15 – 18:30: **TBA** - *Selected short talks*
- 18:30 – 18:45: **TBA** - *Selected short talks*

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19:00 ***Speaker's Dinner***

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**Thursday June 13<sup>th</sup> 2024**

**Session 2 : Methods development**

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08:30 – 09:00 : ***Welcome with Drinks and Croissants***

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09:00 – 09:30 : **Valerio Zerbi** - Integrative Imaging: invasive and non-invasive fMRI explorations of circuits, mental states, and brain dynamics

09:30 – 10:00 : **TBA** – *Selected talk*

10:00 – 10:30 : **Helen Mayberg** - Decoding Multimodal Recovery Signals to Optimize DBS for Depression

10:30 – 10:45: **TBA** - *Selected short talks*

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10:45 – 11:15 : **Coffee Break**

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11:15 – 11:45 : **Andres Lozano** - Advances in the use of DBS

11:45 – 12:30 : **Round table**

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12:30 – 14:00 : **Lunch and Poster Session**

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### **Session 3 : Non invasive neuromodulation (tTDS)**

14:00 – 14:30 : **Indrit Bègue** - Negative symptoms of schizophrenia – looking for answers in the cerebellum with neuroimaging and brain stimulation

14:30 – 15:00 : **Friedhelm Hummel** - Non-invasive deep brain stimulation: a new perspective to enhance human behavior

15:00 – 15:30 : **Andreas Horn** - The Connectome links Invasive and Noninvasive forms of Neuromodulation

15:30 – 16:00 : **Nir Grossman** - Non-invasive temporal interference electrical stimulation of the human hippocampus

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16:00 – 16:30 : **Coffee Break**

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16:30 – 17:00 : **Clement Hamani** - Translational Research on Deep Brain Stimulation for Posttraumatic Stress Disorder

17:00 – 17:30 : **Tifei Yuan** - A cortical substrate for accumbal deep brain stimulation

- 17:30 – 18:00 : **Serge Picaud** - From prosthetic devices to optogenetic and sonogenetic therapies for restoring vision
- 18:00 – 18:30 : **TBA** – *Selected talk*
- 18:30 – 19:00 : **Bechir Jarraya** - Resting-state dynamics as a guide for DBS: an example of recovery of consciousness in a primate model
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## Friday June 14<sup>th</sup> 2024

### Session 4 : Psy DBS

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- 08:30 – 09:00 : ***Welcome with Drinks and Croissants***
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- 09:00 – 09:30 : **Ingo Willuhn** - Identifying therapeutic mechanisms of deep-brain stimulation in a mouse model for OCD
- 09:30 – 10:00 : **Bryan Strange** - Deep-brain stimulation of the human nucleus accumbens-medial septum enhances memory formation
- 10:00 – 10:30 : **Nicole Provenza** - Ethological neurobehavioral investigations in obsessive-compulsive disorder
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- 10:30 – 11:00 : ***Coffee Break***
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- 11:00 – 11:30 : **Meaghan Creed** - Mesolimbic adaptations in a model of chronic neuropathic pain
- 11:30 – 12:00 : **Veerle Visser-Vandewalle** - DBS beyond movement disorders: actual status
- 12:00 – 12:30 : **Andrew Sharrott** - Towards closed-loop deep brain stimulation for the treatment of Alzheimer's disease
- 12:30 – 13:15 : **Valerie Voon** - The heterogeneity of impulsivity: insights from intracranial subthalamic stimulation
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- 13:15 – 14:15 : ***Light farewell apero***
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