OptoDBS 2019
Campus Biotech Geneva, June 20-22, 2019

Thursday June 20, 2019

Session 1:	New Methods and developments	
13:15 - Introduction	Christian Lüscher	
13 :20 – 14:10 Keynote	Ed Boyden	Tools for Observing and Controlling Neural Circuits
14 :10 – 14 :40	Ofer Yizhar	Optogenetic dissection of prefrontal pathways for cognitive function and social behavior
14 :40 – 15 :10	Garret Stuber	Paraventricular Thalamic Circuit Dynamics for Cue-Reward Processing
15 :10 – 15 :40	Andreas Horn	Toward Connectomic Deep Brain Stimulation
15 :40 – 17 :00	Coffee break and poster session	
17 :00 – 17 :20	Christina Grimm	Opto-fMRI on the brain-wide effects of direct and indirect pathway activation
17 :20 – 18:10 Keynote	Botond Roska	Targeting human neuronal cell types for optogenetic repair
	Speaker's dinner	

Friday June 21, 2019

Session 2:	Motor systems	
08 :30 - 09 :00	Welcome with drinks and croissants	
09 :00 - 09 :30	Mark Bevan	Dysregulation and dysfunction of the indirect pathway in mouse movement disorder models
09 :30 - 10 :00	Alexandra Nelson	Optical Assessment of Neural Activity in a Mouse Model of STN DBS for Parkinson's Disease
10 :00 – 10 :30	Adam Kepecs	Structured and cell-type-specific encoding of decision variables in orbitofrontal cortex
10 :30 – 11 :00	Coffee break	
11 :00 – 11 :30	Rui Costa	Discovering, reinforcing and refining actions
11 :30 – 12 :00	Nicolas Mallet	What goes wrong in Basal Ganglia neuronal circuits during Parkinsonism?
12:00 – 12:30	Raffaella Tonini	The input-specific nature of compartmentalized serotonergic signal at striatal circuits

12:30 – 14:00	Lunch and poster session	
Session 3:	DBS in neurology and psychiatry	
14 :00 – 14:50 Keynote	Helen Mayberg	In The Trenches Balancing Progress and Setbacks with DBS for Depression
14 :50 – 15 :20	Renana Eitan	Ventral Subthalamic Theta-Alpha Oscillations Define Emotional and Cognitive Areas in Parkinson's and OCD Patients
15 :20 – 15 :50	Hemmings Wu	Shedding light on action mechanisms of accumbal electrical stimulation for impulsivity
15 :50 – 16 :20	Jens Volkmann	New stimulation tools and strategies in DBS
16 :20 – 16 :50	Coffee break	
16 :50 – 17 :20	Christian Lüscher	The therapeutic implications of a circuit model for addiction
17 :20 – 17 :40	Uma Mohan	The effects of direct brain stimulation in humans depend on frequency and location
17 :40 – 18 :10	Valerie Voon	Electrophysiological markers of addiction processes from deep brain stimulation studies
20 :30	OptoDBS after di	nner party at the Buvette des Bains des Pâquis

Saturday June 22, 2019

Session 4:	DBS in psychiatry	
08 :30 - 09 :00	Welcome with drinks and croissants	
09:00 - 09:30	Camilla Bellone	Neural mechanisms of conspecific interaction
09 :30 - 09 :50	Colin McNamara	Phase-dependent closed-loop modulation of network oscillations in vivo
09 :50 - 10 :10	Daniel Côté	DBS guidance with optical fibers
10 :10 - 10 :30	James Trevathan	Calcium imaging via a miniature microscope for studying deep brain stimulation in a freely moving animal model of disease
10 :30 - 11:20 Keynote	Antonello Bonci	Crossing the translational bridge: from optogenetics to brain stimulation approaches as promising treatments against addictive disorders
11 :20	Closing remarks	
11 :30	Light Farewell ape	éro