

OptoDBS 2015

Geneva 7-9th May

Thursday May 7, 2015

11 :00	Welcome
12 :00	Opening remarks Henri Bounameaux, Dean of Medical Faculty Bertand Levrat, Director of University Hospital
	Followed by refreshments

Session 1 : Optogenetic characterization of disease relevant brain circuits

13 :30 – 14 :00	Anatol Kreitzer	Insights into basal ganglia function from optogenetics
14 :00 – 14 :30	Rui Costa	Shaping actions with basal ganglia circuits
14 :30 – 15 :00	Susanne Ahmari	Understanding the OCD brain: using new technologies to build bridges between humans and mice
15 :00 – 15 :40	Coffee break	
15 :40 – 16 :00	Oded Klavir	Controlling fear associations through optogenetic modulation of amygdala to prefrontal connectivity
16 :00 – 16 :20	Arto Nurmikko	Optoelectronic Toolkit for DBS
16 :20 – 16 :50	Cheng Xiao	Tonic activity of pedunclopontine cholinergic neurons governs locomotion and reward
16 :50 – 17 :20	Christian Lüscher	An optogenetic model of addiction
17 :20 – 17 :50	Paul Krack	From neurological to psychiatric disorders

Friday May 8, 2015

08 :15– 08 :40	Welcome Café & Croissant
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Session 2 : Basic mechanisms

08 :40 – 09 :00	André Zacharia	Effect of STN-DBS frequency on cortical excitability and motor performance in Parkinson's disease
09 :00 – 09 :30	Suzanne Haber	Neuroanatomy of deep brain structure
09 :30 – 10 :00	Ann Graybiel	Selective effects of optogenetic manipulation of the medial prefrontal cortex
10 :00 – 10 :30	Cameron McIntyre	Biophysics of optogenetic and electrical stimulation
10 :30 – 11 :00	Coffee break	
11 :00 – 11 :20	Damien Benis	Electrophysiological correlates of emotional prosody recognition in the nucleus accumbens of patients with depression
11 :20 – 11 :50	Lydia Kerkerian	Neuroadaptive changes under prolonged subthalamic nucleus DBS

11 :50 – 12 :20	Abdelhamid Benazzouz	Effects of DBS on the basal ganglia function
12 :20 – 12 :50	Hagai Bergman	Closed loop DBS
12 :50 – 14 :00	Lunch	

Session 3 : Neuromodulation in non-motor disease

14:00 – 16 :30	Posters session and visit of the Campus Biotech / Wyss Institute	
16 :30 – 16 :50	Sina Kohl	Effects of DBS on prepulse inhibition in obsessive compulsive disorder
16 :50 – 17 :10	Alister Rogers	Deep brain stimulation of the internal pallidum for patients with Huntington disease
17 :10 – 17 :40	Damiaan Denys	DBS in OCD
17 :40 – 18 :10	Christelle Baunez	DBS and optogenetic manipulation of STN on motivational processes and addiction
18 :10 – 18 :40	Meaghan Creed	Optogenetically inspired DBS for addiction
18 :40 – 19 :10	Jens Kuhn	First clinical results of DBS of the Nucleus accumbens in severe addiction
20:30	Geneva Boat	“ Buvette du Bateau” - Get together

Saturday May 9, 2015

08 :00 – 08 :20 Welcome Café & Croissant

Session 4 : Neuromodulation in motor disorders

08 :20 – 08 :40	Huilin Tan	Physiological functions of beta oscillations in cortico-basal ganglia network in motor error evaluation
08 :40 – 09 :00	Daniel Côté	Optimal illumination and collection with microoptical fiber - based devices
09 :00 – 09 :30	Peter Brown	Closed loop stimulation in patients
09 :30 – 10 :00	Claudio Pollo	Directional DBS improves therapeutic window: from computer model to human application
10 :00 – 10 :30	Maria Fiorella Contarino	Directional stimulation: recording possibilities and clinical implications
10 :30 – 11 :00	Coffee break	
11 :00 – 11 :20	Léonie Asboth	Uncovering and enhancing cortical contribution to motor recovery after spinal cord injury
11 :20 – 11 :50	Helen Bronte-Stewart	Electrical recordings under DBS
11 :50 – 12 :20	Pierre Pollak	The many ways to stimulate deeply in the brain: lessons from the PPN
12 :20 – 13 :00	Farewell apéro	