



Monday, November 28, 2016

13.00-13:20 Opening

Opening Lecture

13.20-13.55 The future of DBS - New treatment strategies or better targets for DBS?
A. Lozano

Session 1 Parallel basal ganglia motor, cognitive and limbic circuits

14.05-14.30 Basal ganglia loops - segregation or overlap?
B. Draganski

14.30-14.50 How the STN-GPe loop may include prior knowledge during the exploration in re-learning
F.H. Hamker

14.50-15.10 Basal ganglia-cerebellar interactions
A. Quartarone

15.10-15.20 Abstract presentation 1

15.20-15.30 Abstract presentation 2

15.30-15.40 Session wrap-up, Discussion

15.40-16.00 Coffee Break

Session 2 Local and distant effects of DBS on network function

16.00-16.35 Network effects of DBS assessed by MEG
V. Litvak

16.35-17.00 Can we improve speech by STN DBS?
S. Pinto

17.00-17.20 Effects of thalamic and basal ganglia DBS on language-related functions - Conceptual and clinical considerations
F. Klostermann

17.20-17.30 Session wrap-up, Discussion

17.30-17.45 Break

17.45-18.10 Mechanisms of tremor reduction and ataxia in thalamic DBS
J. Volkmann

18.10-18.30 The role of the STN in adaptive motor control
W.-J. Neumann

18.30-18.40 Abstract presentation 3

18.40-18.50 Session wrap-up, Discussion

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Session 3 Animal models - Basal ganglia physiology

09.00-09.35 Neuronal signature in progressive models of Parkinson's disease - are oscillations enough?
J. L. Vitek

09.35-09.55 Oscillation models in vitro
J. Geiger

09.55-10.15 Temporal development of oscillations in experimental Parkinsonism
C. van Riesen

10.15-10.25 Session wrap-up, Discussion

10.25-10.40 Break

10.40-11.15 Neurobiological and neurophysiological correlates of mental disorders
A. Grace

11.15-11.40 Behavioral and neurophysiological characterization of the DAT model
C. Winter

11.40-11.50 Abstract presentation 4

11.50-12.00 Abstract presentation 5

12.00-12.10 Session wrap-up, Discussion

12.10-13.10 Poster Session

13.10-14.00 Lunch

Session 4 Biomarker in movement disorders

14.00-14.35 Complex dynamics of neuronal oscillations and its functional role in health and disease
K. Linkenkaer-Hansen

14.35-14.55 Cortico-subcortical interactions and metastable neural dynamics in Parkinson's Disease
V. Nikulin

14.55-15.15 Are LFP useful chronic biomarkers for motor behaviour?
A. Kühn

15.15-15.40 The role of high frequency oscillations in movement disorders
A. Schnitzler

15.40-15.50 Session wrap-up, Discussion

15.50-16.10 Coffee break