



Tuesday, November 29, 2016

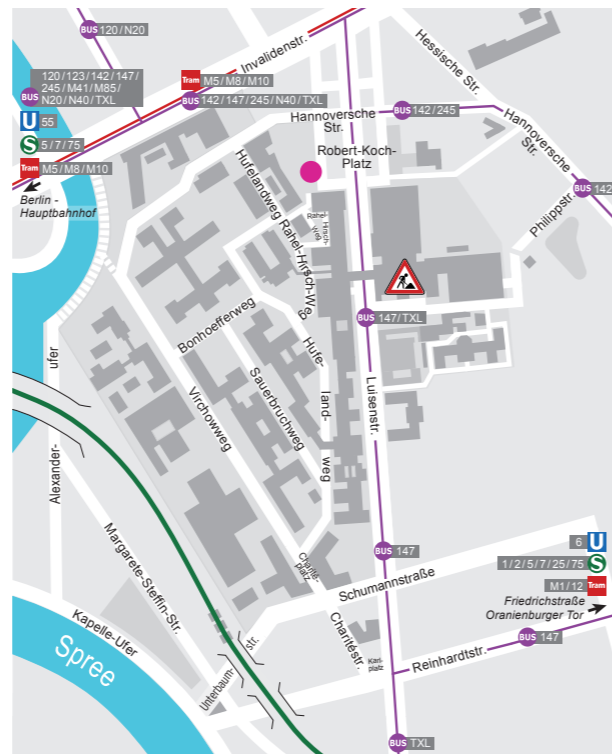
Session 5 DBS Innovations

- 16.10-16.45 **Models to program DBS**
C. McIntyre
- 16.45-17.10 **Electrode localization and first experience with LEAD-DBS programming**
A. Horn
- 17.10-17.35 **Directional DBS: clinical experience**
L. Timmermann
- 17.35-17.50 **Break**
- 17.50-18.25 **Adaptive DBS in tremor and Parkinson's disease**
P. Brown
- 18.25-18.50 **Direct visualization of DBS targets using 7T MRI**
N. Harel
- 18.50-19.00 **Session wrap-up, Discussion**
- 19.00 **End of symposium**

How to get there:

Charité - Universitätsmedizin Berlin
Campus Charité Mitte | Charitéplatz 1 | 10117 Berlin

● Kaiserin Friedrich-Haus | Robert-Koch-Platz 7 | 10115 Berlin



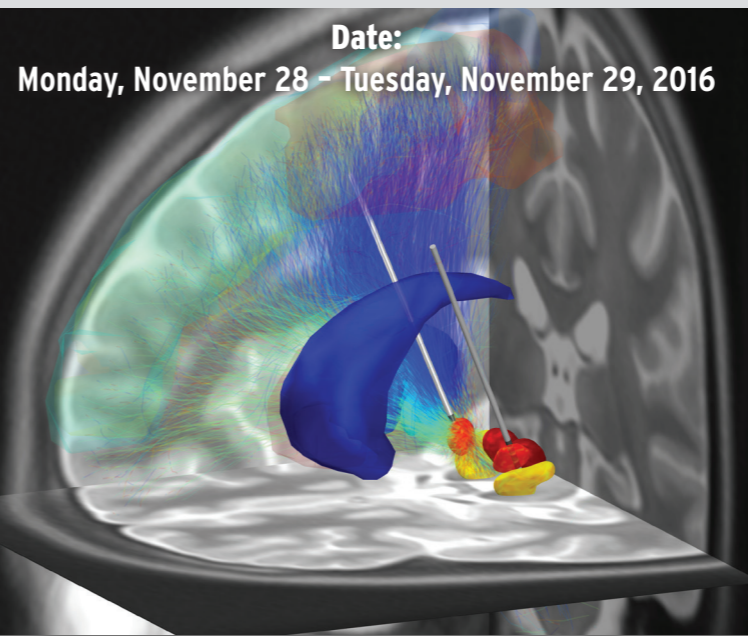
Public transport:

Bus	Robert-Koch-Platz	142, 245
	Invalidenpark	142, 147, 245, TXL
	Berlin Hauptbahnhof	120, 123, 142, 147, 245, M41, M85, N20, N40, TXL
U-Bahn	Naturkundemuseum	U6
S-Bahn	Friedrichstraße	S1, S2, S5, S7, S25, S75
	Berlin Hauptbahnhof	S5, S7, S75



Movement Disorders and Neuromodulation Unit
Department of Neurology

Scientific Program
International DBS Symposium
Clinical Research Group KFO 247



Date:
Monday, November 28 - Tuesday, November 29, 2016

Location:
Kaiserin Friedrich-Haus | Robert-Koch-Platz 7 | 10115 Berlin
<http://www.kfo247.de>


Charité - Universitätsmedizin Berlin


Dear colleagues and friends,

It is our great pleasure to invite you to the International Symposium on Deep Brain Stimulation hosted by the Clinical Research Group „Deep Brain Stimulation“ on November 28-29, 2016 in Berlin. Our clinical research group was the first collaborative research effort on DBS mechanisms in Germany funded by the German Research Council (DFG) for 6 years fostering successful interdisciplinary research and the foundation of the Movement Disorder and Neuromodulation Unit at the Charité. We would like to mark this event with an international symposium focussed on the main aspects of DBS from animal work and computational models to human neurophysiology and recent technical DBS innovations. The two-day symposium will present the scientific results of our research group that was supported by the German Research Foundation grant KFO247. Moreover, talks and discussions with international key-note speakers and experts of the field will address current hot topics in DBS research directed at the basal ganglia circuitries, network effects of DBS, animal models and potential biomarkers in movement disorders as well as recent innovations in technology and methodology. To promote young researchers we will select short oral communications and poster presentations of innovative projects from submitted abstracts. The symposium strives to trigger off future collaborative research efforts by providing a platform for intense discussion between basic neuroscientists and clinicians in the field of DBS. It will be followed by the jointly organized first DBS expert summit in Würzburg, Bavaria from November 30-December 2, 2016 where the future of DBS shall be discussed in broader terms among leading international expert teams.

We cordially invite you to Berlin and hope that you will enjoy your stay in the vibrant capital of Germany, a metropolis for art and lifestyle, history and business. We look forward to an inspiring scientific event, sharing new research data and discussing new ideas for joint future projects on DBS.

Cordially,


Andrea Kühn, MD
Head of Clinical Research Group and
Movement Disorder
and Neuromodulation Unit


Matthias Endres, MD
Speaker of Clinical Research Group
Director of Dept. of Neurology



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

Tuesday, November 29, 2016

- 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 EEG biomarker integration for accurate decision making in clinical research
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