CHARITÉ
UNIVERSITÄTSMEDIZIN BERLIN

4th Berlin Comprehensive Hands-on Course

Anatomical Basis for Neurosurgery

December 14 – 16, 2025

Berlin Simulation and Training Center | BeST

Organizer

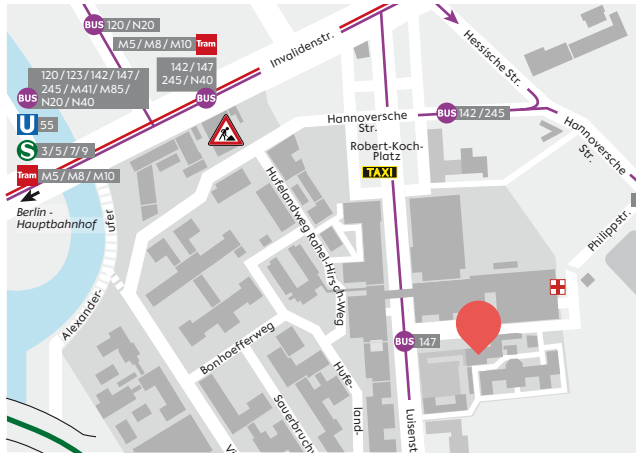
Charité – Universitätsmedizin Berlin
Berlin Simulation- and Training Center | BeST
Philippstraße 11, 10115 Berlin

Faculty

Univ. Prof. Dr. Peter A, Winkler (Course Director)
Prof. Dr. Peter Vajkoczy (Chairman)
Prof. Dr. Thomas Picht (Professor of Digital Neurosurgery)
PD Dr. Thomas Jöns (Head of the BeST-CAT)

Venue

Dissection Hall and Seminar Room, BeST-CAT
Campus Charité Mitte, Philippstraße 11, 10115 Berlin
Wilhelm-Waldeyer Haus (Center for Anatomy)



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Registration

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Dear young Neurosurgeons and esteemed Colleagues

we cordially invite you to participate in our highly anticipated fourth hands-on course, "Anatomical Basics of Neurosurgery," taking place from December 14th to 16th, 2025, at the prestigious Berlin Simulation and Training Center (BeST) of the renowned Charité University Hospital.

This unique course embraces an innovative approach, aiming to provide an unparalleled learning experience that seamlessly integrates intricate neuroanatomical theory with practical, hands-on exploration. Over the course of three comprehensive days, you will engage in a transformative microneurosurgical neuroanatomical training program.
Building upon the success of Prof. Dr. Peter A. Winkler's acclaimed Salzburg Anatomy Course with human specimens, we have further enhanced the learning environment. Our state-of-the-art 4K3D presentation technology will be employed, augmented by a groundbreaking fixation technique that allows for real-time and comprehensive exploration of neuroanatomical structures, even after craniotomy and dural opening.

We are thrilled to provide you with an instructive and captivating experience, filled with valuable insights and stimulating discussions. Join us this December in the vibrant city of Berlin and embark on a remarkable journey that will deepen your understanding of neurosurgery's anatomical foundations.

Wishing you enriching and captivating days with us in Berlin!

Course Director: Univ. Prof. Dr. Peter A. Winkler
Chairman: Prof. Dr. Peter Vajkoczy

Program

Friday, December 14, 2025

08.00 **Registration and Welcome Reception**

08.45 **Introduction** · Prof. Dr. Peter Vajkoczy, Chairman

Opening · Prof. Dr. Peter A. Winkler, Course Director

09.00 A | **Craniocerebral Topography of Hemispheres and Lateral Ventricles**
Lecture & Hands-on · Peter A. Winkler

10.00 B | **Pterional and Temporal Approaches to the Silvian Fissure and Basal Cisterns**
Hands-on · Peter Vajkoczy and Peter A. Winkler

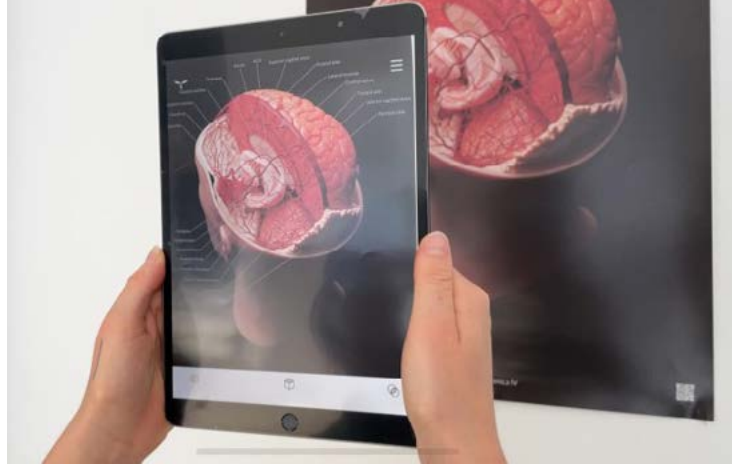
11.30 C | **Splitting of the Sylvian Fissure – the Way to the Carotid Artery**
Lecture & Anatomical Demonstration · Andreas Raabe

01.00 Lunch

02.00 D | **Temporomesial Region and Related Approaches – Cisterna Ambiens – Lateral Brain Stem**
Lecture and Hands-on: Visualization of the Different Approaches to the Temporomesial Region and Study of the Anatomy around the Brain Stem & Case Discussion · Julia Onken and Peter A. Winkler

04.00 E | **Approaches to Midline Structures and III. Ventricle**
Lecture and Hands-on · Peter A. Winkler

06:00 **Evening at Leisure in Berlin**



Saturday, December 15, 2025

08.00 F | **Skull Base and Related Structures**
Lecture and Anatomical 3D-Demonstration · Peter A. Winkler

09.00 G | **Brainstem and Related Approaches**
Retrosigmoidal approach – Subtemporal without and with anterior petrosectomy – Median suboccipital approach – Postero-lateral al ("far lateral") approach – Telovelar approach – see below.
Lecture and Hands-on · Michael Bruneau, Froelich Sebastién, Pau Capilla-Guasch and Peter A. Winkler

12.00 Lunch

01.00 H | **Cerebellum and Related Approaches**
Horizontal fissure - Median suboccipital approaches with lateral enlargement and telovelar approach
Lecture and Hands-on · Peter A. Winkler

03.00 I | **Supra- and Infratentorial Exploration of the Pineal Region**
Lecture and Hands-on · Pau Capilla-Guasch and Peter A. Winkler

05.00 J | **Parietooccipital Region and Atrium Ventriculi**
Lecture and Hands-on · Pau Capilla-Guasch, Valencia and Peter A. Winkler

08.00 **Working Dinner together in Berlin Restaurant Habel.**

Sunday, December 16, 2025

08.00 K | **Subfrontal Approach and Maximal Exposure including Cranial Nerves I – III, Liljequist-Membrane and the Basilar Artery**
Hands-on · Pau Capilla-Guasch and Peter A. Winkler

11.00 Break

11.30 L | **Cerebral Venous System and Surgical Implications**
Lecture and Anatomical Demonstration · Florian Ebner and Peter A. Winkler

12.30 M | **Functional Anatomy of White Matter and Tracts**
Lecture and Anatomical Demonstration on Preformed Specimens · Peter A. Winkler

01.30 **End, Course Evaluation and Delivery of the Certificates.**

Have a look at our course in action here