

## Modular Curriculum

This training program is a series of three modules about eloquent brain tumor treatment and structured as follows:

- Module 1: TMS-Transcranial Magnetic Stimulation(250€)
- Module 2: White Matter Tractography (250€)
- Module 3: Brain Tumor Surgery (750€)

## Trainers

### PD Dr. med. Julia Onken

Consultant at the Department of Neurosurgery,  
Charité - Universitätsmedizin Berlin

### Dr. Martin Misch

Consultant at the Department of Neurosurgery,  
Charité - Universitätsmedizin Berlin

### Prof. Dr. Thomas Picht\*

Professor for Digital Neurosurgery  
Head of the Image Guidance Lab,  
Charité - Universitätsmedizin Berlin

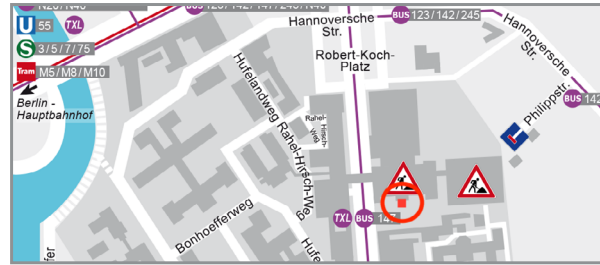
### Prof. Dr. Peter Vajkoczy

Chief physician Department of Neurosurgery,  
Charité - Universitätsmedizin Berlin

## Partners



\*scientific director



## Location

Operation theatre and seminar rooms,  
Campus Charité Mitte, 10117 Berlin  
**Luisenstraße 64 | Room 15003 (15<sup>th</sup> floor)**

## Arrival

with public transportation  
S+U Berlin-Hauptbahnhof (S5/S7/S75/S9)  
U Naturkundemuseum (U6)  
U Oranienburger Tor (U6)  
S+U Friedrichstr. (S1/S2/S5/S7/S75/S9/U6)

Please note that Berlin-Mitte doesn't provide a great number of parking spaces. Therefore, using the city's public transportation system would definitely be a good alternative. If you decide to travel via public transportation, we recommend using [www.bvg.de](http://www.bvg.de) for planning your route.

## Host

Charité Universitätsmedizin Berlin  
Berliner Simulations- und Trainingszentrum  
Charitéplatz 1 | 10117 Berlin  
Contact person: Christine Thol  
[berliner-simulationstraining@charite.de](mailto:berliner-simulationstraining@charite.de)  
Tel. +49 30 450 531 229  
Fax +49 30 450 7 531 229

## Registration

via e-mail: [berliner-simulationstraining@charite.de](mailto:berliner-simulationstraining@charite.de)  
Website: [best.charite.de](http://best.charite.de)

**Maximum no. of participants: 6**



## Berliner Simulations- & Trainingszentrum

### Brain Tumor Treatment Module 3: Brain Tumor Surgery



“it's good to know, it's BeST to simulate”



**Dates 2023**

02<sup>nd</sup> September  
25<sup>th</sup> November

**Registration fee**

750 € per Participant

## Maximum training efficiency

The surgery course provides the opportunity to learn standardized procedures in a realistic setting and gives participants the chance to test and train recently developed technologies.

You will experience:

- training in the **operating rooms** of the Department of Neurosurgery, Charité
- procedures with **real brain tissue** in a realistic setting
- **support** by an experienced scrub nurse
- continuous **feedback** from experienced consultants

Our goal is to enable participants to exploit technological standard procedures to their full potential (navigation, fluorescence, CUSA etc.) and turn them into experts in the procedures' application. There will be time to test the following, new technologies and learn how to effectively use them:

- Augmented reality (Brainlab/Zeiss)
- Exoscopic surgery (Olympus/Zeiss)
- Yellow 560 (Zeiss)
- CUSA subpial dissection (Integra)

## An innovative training model:

The course will take place in a **fully equipped operating room**. The competencies that are taught in this training unit include neurosurgical basics like indicating and planning surgery as well as practising elementary skills such as positioning, craniotomy planning and microsurgical skills. Furthermore, participants will become acquainted with the usage of navigation, augmented reality, exoscopic surgery, fluorescence and subpial dissection using the CUSA among others. The usage of **novel craniocerebral dummies** increases the training effect and enables flexible acquisition and training of various skills.

## Competencies taught

- Positioning and craniotomy planning
- Setting up and usage of intraoperative neuronavigation
- Subpial dissection
- Application of Yellow 560 fluorescence
- Exoscopic and semi-robotic surgery

## Training schedule

7.30	Registration and small breakfast
8.00	Course overview and handout
8.15	Introduction <ul style="list-style-type: none"><li>• Concept of the course</li><li>• Surgery basics - planning and positioning</li><li>• Discussing different technologies</li><li>• Operation planning for the training cases</li></ul>
09.00	Scenario 1 in surgery
11.00	LUNCH BREAK
12.00	Scenario 2 in surgery
14.00	COFFEE BREAK
14.30	Scenario 3 in surgery
16.30	Debriefing
17.00	END OF THE COURSE

## Scenarios

- 1 Navigated biopsy (Varioguide™)
- 2 subpial tumor resection (with yellow fluorescence)
- 3 transsulcal tumor resection (with augmented reality)