

Mrs. Bettina Gaida  
**Universitätsklinik für Neurochirurgie**  
Allgemeines Krankenhaus der Stadt Wien (AKH)  
Währinger Gürtel 18-20  
A-1090 Vienna  
Austria

## General Information

### Presented by:

Department of Neurosurgery  
Medical University of Vienna (General Hospital - AKH)  
Währinger Gürtel 18-20 · 1090 Vienna · Austria  
Chairman: Univ.Prof.Dr. Engelbert Knosp

### Course Venue:

Microsurgical Laboratory of the Department of Neurosurgery  
Vienna General Hospital (AKH) · Level 8H  
Währinger Gürtel 18-20 · 1090 Vienna · Austria

### Workshop Language:

English

### Organization:

Aygül Mert, MD  
E-mail: ayguel.mert@meduniwien.ac.at  
Stefan Wolfsberger, MD  
E-Mail: stefan.wolfsberger@meduniwien.ac.at

### Course Secretariat:

Mrs. Bettina Gaida  
Phone +43/1/40400-45650  
Fax +43/1/40400-45660  
E-mail: bettina.gaida@meduniwien.ac.at

### Workshop Fee: € 950.-

Includes cadaver workshop, DTI workstations, meals  
Having received a confirmation of participation,  
the workshop fee must be transferred not later than  
May 1<sup>st</sup> to the following account:

#### Erste Bank AG

Account no. 404 100 707 00, BLZ 20111

IBAN: AT36 20111 404 100 707 00

BIC/SWIFT: GIBAATWW

Account holder: Medizinische Universität Wien

Intended purpose: KO27736002

(this is absolutely necessary to specify!)

### Application for attendance:

For application use the attached form by mail, fax or e-mail.  
The workshop is limited to 14 Participants. Allocation is  
based on a first-come first-served basis.

### Accommodation:

Hotel Regina  
Rooseveltplatz 15, 1090 Vienna, Austria  
Phone +43/1/404 46-0  
Room reservation is performed automatically after  
receipt of workshop fee.



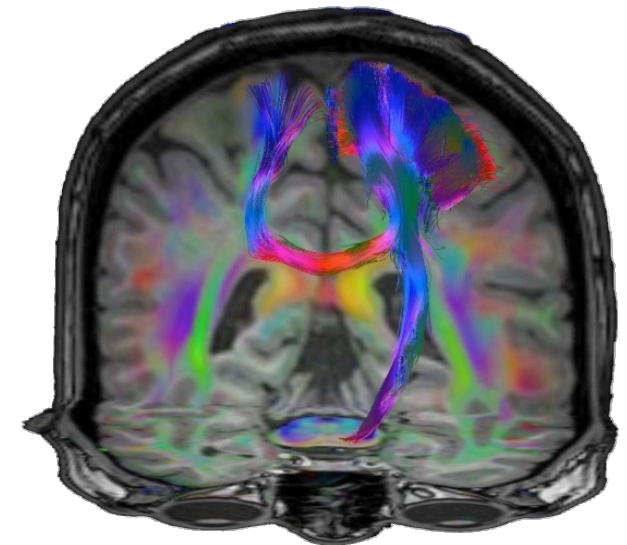
## Department of Neurosurgery

Chair: Univ.Prof.Dr. Engelbert Knosp

## Department of Radiology, Division of Neuroradiology

Chair: Univ.Prof.Dr. Daniela Prayer

## Medical University of Vienna



# 6<sup>TH</sup> INTERNATIONAL TRACTOGRAPHY WORKSHOP

**May 18 – 20, 2015**

Department of Neurosurgery  
Medical University Vienna  
Austria

in collaboration with



**Medtronic**

## Course Objectives

Diffusion Tensor Imaging (DTI) has recently gained importance, not only for planning of neurosurgical approaches, but also as a subcortical adjunct to functional MR image data for intraoperative neuro-navigation. This course is aimed at neurosurgeons who want to get acquainted with the white matter tract anatomy and with DTI-tractography of the human brain. Therefore, the workshop uniquely combines cadaver dissection of white matter fiber tracts with hands-on DTI-tractography training.

The main objective of the course is practical training both on human cadaver specimens and on a DTI tractography system. The number of participants is limited to 14 for whom a sufficient number of tutors will be provided.

Each day commences with microscopic cadaver dissection introduced by anatomical and surgical experts. The afternoon is dedicated to hands-on fiber-tracking with special emphasis on its application for surgical planning and intraoperative navigation. StealthDTI® tractography and navigation systems are provided in collaboration with the Medtronic company. A dedicated part of the course covers 3D visualization techniques and their application for neurosurgical planning using the StealthViz® software tool.

We are looking forward to welcoming you in Vienna!

Sincerely,

Engelbert Knosp

## Faculty

**Univ.Prof.Dr. Engelbert Knosp**

**Assoc.Prof.PD Dr. Stefan Wolfsberger**

**Univ.Prof.Dr. Thomas Czech**

Dept. of Neurosurgery, Medical University of Vienna

**Prof.Dr.Evandro di Oliveira**

Director of the Neurological Institute of Sao Paulo, Brazil

**Dr.Paulo Kadri**

Dept. of Neurosurgery, University of Sao Paulo, Brazil

**Ass.Prof.Dr.Alvaro Cordoba**

Dept. of Neurosurgery, University of Montevideo, Uruguay

**Prof. Boguslaw Tomanek**

Dept. of Oncology, Div. of Med. Physics, University of Alberta, Canada

**Univ.Prof.Dr. Daniela Prayer**

Dept. of Radiology, Medical University of Vienna

**Univ.Prof.Dr. Wolfgang Weninger**

Center of Anatomy and Cell Biology

**Dr. Katja Bühler**

VRVis – Centre for Virtual Reality and Visualization, Vienna

## Course Program

### Monday, May 18

08:00 **Welcome** (Knosp)

08:15 Introduction: **Historical Aspects** (Czech)

08:30 Lecture: Surgery – **Gliomas** (Knosp)

09:00 Anatomy - **Hemisphere from Lateral** (Wolfsberger/Kadri)

09:30 Workshop: Dissection - **Hemisphere from Lateral**

12:00 Lunch

13:30 Lecture: **DTI Basics** (Tomanek)

14:00 Lecture: Navigation – **StealthDTI® Instructions** (Mert)

14:30 Workshop: DTI-Tractography - **Projection fibres**

### Tuesday, May 19

08:00 Lecture: Radiology – **DTI and tractography in the assessment of CNS and PNS pathologies** (Kasprian)

08:30 Lecture: Radiology - **DTI, beyond the corticospinal tract** (Mitter)

09:00 Lecture: Anatomy - **Hemisphere from Medial** (Wolfsberger/Kadri)

09:30 Workshop: Dissection - **Hemisphere from Medial**

12:00 Lunch

13:30 Lecture: **Contact optic and tractography brain-monitoring in glioma surgery** (Cordoba)

14:00 Lecture: Navigation – **Advanced Navigation Techniques with AxiEM®** (Wolfsberger)

15:00 Workshop: DTI-Tractography **Association/Commissural Fibres**

### Wednesday, May 20

08:00 Lecture: **Microsurgical Anatomy of AVMs in Eloquent Areas** (Oliveira)

09:00 Lecture: Anatomy/Surgery - **Temporal Lobe** (Czech)

09:30 Workshop: Dissection **Hemisphere from Medial and Temporal**

12:00 Lunch

13:30 Lecture: **Techniques for 3D Visualization** (Bühler/Dodier)

14:30 Lecture: **3D Volume Rendering with StealthViz®** (Mert)

15:00 Workshop: The **StealthViz® Module for Surgical Planning**

17:00 Workshop adjourns

in collaboration with



**Medtronic**

## Application Form

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Surname

.....  
First and middle Names

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Titel

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Address

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ZIP/City

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Country

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Phone

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Fax

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e-mail

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Hospital

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Department

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Position

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Hospital address

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Hospital ZIP/City

.....  
Hospital country

- ☐ accommodation requested (DR / single occ. € 115,-)  
☐ accommodation requested (DR / double occ. € 140,-)

.....  
date/signature