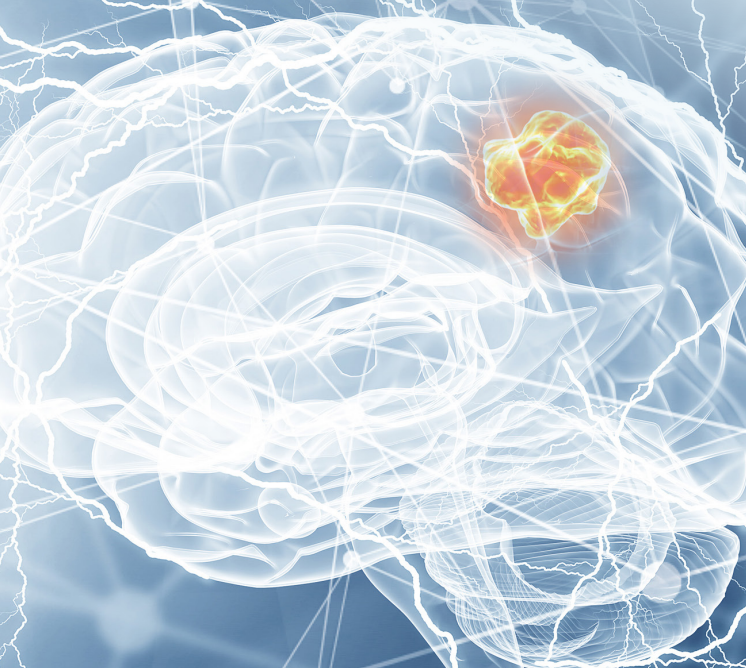




Section Neurosurgical Oncology  
Austrian Neurosurgical Society



DEPARTMENT OF NEUROSURGERY  
MEDICAL UNIVERSITY OF VIENNA

## Invitation State of the Art and Innovations in Gliomas

25<sup>th</sup> Neurosurgical Oncology Meeting

28<sup>th</sup> – 29<sup>th</sup> May 2018

Medical University of Vienna,  
Jugendstilh rsaal, 1090 Vienna

[www.meduniwien.ac.at/ANCO](http://www.meduniwien.ac.at/ANCO)

## Dear colleagues!

I am very delighted to welcome you to the 25<sup>th</sup> Neurosurgical Oncology Meeting at the Medical University in Vienna. The main focus of our Meeting will be on "State of the Art and Innovations in Gliomas". We invite participants from all disciplines involved and interested in the management of this challenging tumor entity.

National and international experts from eight different countries are expected to join our Meeting (United States, Russia, Sweden, Germany, Netherlands, Switzerland, Czech Republic and Austria). We are very honored that the Chairman of the Department of Neurological Surgery from the University of California, San Francisco, Mitchel S. Berger will be our special guest and will give two key note lectures. Additionally, also young colleagues and scientists will have the possibility to present their work.

Our Meeting will provide a great opportunity to update the knowledge as well as discuss innovations, exchange ideas and create new collaborations between young and experienced colleagues of different disciplines.

I am looking forward to welcoming you in Vienna for these interesting and exciting two days.

Georg Widhalm, Chair ANCO

Please register at:  
[www.meduniwien.ac.at/ANCO](http://www.meduniwien.ac.at/ANCO)



Jugendstilh rsaal, Rektoratsgeb ude (BT88), 2<sup>nd</sup> Floor  
Medical University of Vienna  
Spitalgasse 23, 1090 Vienna

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# Monday, 28<sup>th</sup> May

10.00 – 10.10 am

## Welcome

Georg Widhalm, Medical University of Vienna

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10.10 – 10.40 am

## Keynote Lecture

### Introduction

Engelbert Knosp, Medical University of Vienna

### Value of brain mapping to achieve maximal safe glioma resection

Mitchel S. Berger, University of California, San Francisco, US

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10.40 am – 12.40 pm

## State of the Art Session I

Chairs: Asgeir Jakola, Sahlgrenska University Hospital Goteborg, Sweden  
Engelbert Knosp, Medical University of Vienna

### Epidemiology, histopathology and molecular markers in gliomas

Adelheid Wöhrer, Medical University of Vienna

### Relevant anatomy for glioma surgery

Peter Winkler, University Clinic Salzburg

### Management of seizures in glioma patients

Ekaterina Patarai, Medical University of Vienna

### Radiology and advanced imaging methods in gliomas

Franz Payer, Medical University of Graz

### Functional imaging in gliomas

Gregor Kasprian, Medical University of Vienna

### Positron emission tomography for investigation of gliomas

Tatjana Traub-Weidinger, Medical University of Vienna

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12.40 – 1.40 pm

## Lunch break

1.40 – 3.20 pm

## Neurosurgical Session

Chairs: Philip C. de Witt Hamer, VU University Medical Center, Amsterdam, Netherlands  
Thomas Czech, Medical University of Vienna

### The impact of extent of resection in glioma surgery

Asgeir Jakola, Sahlgrenska University Hospital Goteborg, Sweden

### Resection probability maps to evaluate glioma surgery

Philip C. de Witt Hamer, VU University Medical Center, Amsterdam, Netherlands

### Glioma surgery assisted by multimodal imaging

Engelbert Knosp, Medical University of Vienna

### Intraoperative visualization of gliomas with fluorescence

Georg Widhalm, Medical University of Vienna

### Intraoperative MRI for improved resection of gliomas

Christian Senft, University Hospital Frankfurt, Germany

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3.20 – 3.40 pm

## Coffee break

3.40 – 5.00 pm

## State of the Art Session II

Chairs: Stefan Oberndorfer, University Clinic St. Pölten  
Matthias Preusser, Medical University of Vienna

### Radiotherapy for treatment of gliomas

Meinhard Nevinny-Stickel, Medical University of Innsbruck

### Oncological treatment options in gliomas

Stefan Oberndorfer, University Clinic St. Pölten

### Proton beam therapy as a new treatment option in gliomas

Eugen B. Hug, MedAustron Wiener Neustadt

### Neuropsychology and quality of life in glioma patients

Gabriele Schauer-Maurer, Medical University of Innsbruck

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5.00 pm

## Drinks and Networking

Tuesday 29<sup>th</sup> May

9.00 – 10.00 am

## Guest lecture at the Medical University of Vienna

### Introduction

Markus Müller, Rector of the Medical University of Vienna

### Current concepts in the management of low-grade gliomas

Mitchel S. Berger, University of California, San Francisco, US

10.00 – 10.30 am

### Coffee break

10.30 – 11.30 am

## Scientific Session I – Basic Research in Gliomas

Chairs: Sabine Spiegl-Kreinecker, Johannes Kepler University Linz  
Walter Berger, Medical University of Vienna

### Keynote: Surgery meets lab – translational re- search on glioma

Sabine Spiegl-Kreinecker, Johannes Kepler University Linz

### Targetable molecular alterations in gliomas

Daniela Lötsch, Medical University of Vienna

### Inflammatory microenvironment in gliomas

Anna S. Berghoff, Medical University of Vienna

### Immunological learnings from a phase II glioblastoma immunotherapy trial

Friedrich Erhart, Medical University of Vienna

### DNA methylation landscapes in recurrent glioblastomas

Barbara Kiesel, Medical University of Vienna

11.30 am – 12.50 pm

## Scientific Session II – Preoperative Imaging and Function in Gliomas

Chairs: Martha Nowosielski, Medical University of Innsbruck  
Gregor Kasprian, Medical University of Vienna

### Keynote: Innovations in MRI analysis of gliomas

Martha Nowosielski, Medical University of Innsbruck

### First experience with phosphor spectroscopy in gliomas

Johannes Kerschbaumer, Medical University of Innsbruck

### High resolution mapping of gliomas with 7 Tesla magnetic resonance imaging

Gilbert Hangel, Medical University of Vienna

### Transcranial magnetic stimulation (TMS): a powerful tool to localize brain function?

Christian Windischberger, Medical University of Vienna

### Non-invasive and intraoperative language mapping in glioma patients: a comparative study using continuous Theta Burst TMS and DCS

Sascha Freigang, Medical University of Graz

### Resting state MRI: Manifold learning to map functional brain architecture across individuals

Georg Langs, Medical University of Vienna

### Impact of epileptogenic gliomas on the language network

Olivia Fösleitner, Medical University of Vienna

12.50 – 1.40 pm

Lunch break

1.40 – 3.20 pm

## Scientific Session III – Improved Visualization of Gliomas

Chairs: Sergey Goryaynov, Burdenko Institute Moscow, Russia  
Gord von Campe, Medical University of Graz

### Keynote: The value of 5-ALA fluorescence in low- grade gliomas

Sergey Goryaynov, Burdenko Institute Moscow, Russia

### In-vivo quantitative analysis of 5-ALA fluorescence to visualize suspected low-grade gliomas: Collaborative study of UCSF and Dartmouth

Jonathan Weller, University Hospital Zürich, Switzerland

**Intraoperative detection of glioblastoma tissue in initially suspected low-grade gliomas: Experience at Medical University of Vienna and UCSF**

Arthur Hosmann, Medical University of Vienna

**Semiquantitative analysis of 5-ALA fluorescence levels in glioblastomas**

Mario Mischkulnig, Medical University of Vienna

**Combined use of 5-ALA fluorescence and intra-operative MRI in glioma surgery**

Martin Aichholzer, Johannes Kepler University Linz

**Intraoperative sonography in low-grade glioma surgery: Experience with the 2D high frequency MARTIX transducer**

Stefan Schweiger, Hospital Wr. Neustadt

**Ultrasound-based navigation in glioma surgery**

Michael Bartos, University Hospital Hradec Kralove, Czech Republic

**New techniques for intraoperative tissue diagnosis**

Stefan Wolfsberger, Medical University of Vienna

**Ultramicroscopy as a new tool for 3D histopathology of tumors**

Hans-Ulrich Dodt, Vienna University of Technology

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3.20 – 3.40 pm  
**Coffee break**

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3.40 – 5.00 pm

**Scientific Session IV –  
Management of Gliomas**

Chairs: Christian Freyschlag, Medical University of Innsbruck

Christine Marosi, Medical University of Vienna

**Keynote: The value of tumor treating fields in high-grade gliomas**

Christian Freyschlag, Medical University of Innsbruck

**Resection probability maps of glioblastoma in surgical decision-making: a focus on Medical University of Vienna**

Domenique Mueller, VU University Medical Center, Amsterdam, Netherlands

**Surgery of recurrent glioblastomas: Indications, surgical outcome and histology**

Florian Scheichel, University Clinic St. Pölten

**Radiosurgical treatment of recurrent high-grade gliomas**

Josa Frischer, Medical University of Vienna

**Photodynamic therapy as treatment option for recurrent high-grade gliomas**

Herbert Stepp, Ludwig-Maximilians-University Munich, Germany

**Perioperative challenges in surgery of complex glioma cases**

Wolfgang Pfisterer, SMZ Ost Vienna

**Management of glioma patients in Europe and South Africa: Personal experience from the Tygerberg Hospital**

Petra A. Mercea, Medical University of Vienna

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5.00 pm

**Closing remarks**

Georg Widhalm, Medical University of Vienna



This event will be approved by the Austrian Medical Chamber with 16 DFP-Points.