Dear colleagues!

I am very delighted to welcome you to the 25th 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 keynote 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
Monday, 28th May

10.00 – 10.10 am
Welcome
Georg Widhalm, Medical University of Vienna

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

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 Pataaraia, Medical University of Vienna

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

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

5.00 pm
Drinks and Networking

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

Intraoperative MRI for improved resection of gliomas
Christian Senft, University Hospital Frankfurt, Germany
Tuesday 29th 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 research 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 Goryayanov, Burdenko Institute Moscow, Russia
Gord von Campe, Medical University of Graz

Keynote: The value of 5-ALA fluorescence in low-grade gliomas
Sergey Goryayanov, 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

Impact of epileptogenic gliomas on the language network
Olivia Fösleitner, Medical University of Vienna

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

3.40 – 5.00 pm
Scientific Session IV – Management of Gliomas

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

3.20 – 3.40 pm
Coffee break

Management of glioma patients in Europe and South Africa: Personal experience from the Tygerberg Hospital
Petra A. Mercea, Medical University of Vienna

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.