Ingenia MR-OR intraoperative MRI delivers high-quality images during neurosurgical procedures. It helps you gain up-to-date insight on surgical progress and tumor resection to support confident intraoperative decisions and update neuronavigation.

The solution supports smooth, in-line patient transfer between the operating room and the Philips Ingenia MR system, with minimal procedure time added. Moreover, it lets you preserve your OR set-up for efficient neurosurgical workflows. Thanks to versatile configuration options, Ingenia MR-OR supports high utilization, while driving cost-effectiveness and flexibility.

Visit www.philips.com/mr-or to explore our intraoperative MR solution further.
ON-THE-FLY 3D VIEWS.
DEEP ANATOMICAL INSIGHT.
ADAPTABLE SYSTEM SETUP.

EXPERIENCE A NEW DIMENSION WITH BRAINLAB DICOM VIEWER 3D STEREO.
BRAINLAB.COM/VIEWER
Dear Colleagues,

without further ado
I welcome you to the 6th Meeting of the Intraoperative Imaging Society!

Intraoperative MRI, CT and US represent our major tools. While the emphasis has shifted from the fascination with the “new technique” of intraoperative imaging and its technical challenges to thorough appraisal of efficacy, new developments come into view: e.g. minimally invasive or non-invasive methods like LITT or focused ultrasound. Furthermore optical methods advanced, employing the ubiquitous microscope to provide us with intraoperative online information down to the cellular level.

It is tempting to bring in as much “fire power” as possible. But how do we use these techniques efficiently to benefit our patients? How do we obtain the information we really need to make a surgical decision?

Thorough knowledge of the methods and their capacity, but even more importantly their limitations, enables us to appraise the resulting information and employ the tools carefully within the framework of surgical necessities. Intraoperative Imaging with all its facets is a means to an end. We need to assess and identify the best combinations of tools from our armamentarium to fit specific tasks.

In this highly technical field, advances will only be possible in multidisciplinary teams in close cooperation with the Industry. However, the surgeon has to advocate the patient’s benefit and define practical objectives.

Therefore I am happy to welcome you, delegates from four continents, with all your different experiences to convene in a place of art for the purpose of advancing knowledge.

Sincerely
Arya Nabavi
We thank the industry for contributing to the success of this conference and the professional and enthusiastic help in the preparations!

Intraoperative Imaging is a great technological challenge, which can best be addressed cooperatively.
## Contents

General Information.................................................................................................. 6
Registration Office................................................................................................... 6
Presentations ............................................................................................................ 7
Venue ......................................................................................................................... 8
Overview…………………………………………………………………………………… 10
Thursday 23.02.2017 Opening Ceremony Calder Room ..................................... 11
Friday 24.02.2017 .................................................................................................... 12
  Welcome and Opening Remarks .................................................................................. 12
  Brain Tumor Resection: Measuring the Extent............................................................ 12
  Brain Tumour Resection: Determining Efficacy of iMRI ............................................. 13
  F.A. Jolesz Memorial Lecture ........................................................................................ 14
  Fluorescence guided Surgery ....................................................................................... 14
  Special Session CT ........................................................................................................ 15
  Dinner at Gartensaal “Altes Rathaus”.......................................................................... 16
Saturday 25.02.2017 ............................................................................................... 17
  Diagnostic Ultrasound ............................................................................................... 17
  Special Session Ultrasound ....................................................................................... 17
  Therapeutic Focused Ultrasound ................................................................................. 18
  Robotics ......................................................................................................................... 18
  Short Communication .................................................................................................. 19
  Horizon Lecture ........................................................................................................... 20
  Beyond Grayscale ........................................................................................................ 20
  LITT............................................................................................................................... 21
  Dinner at H’ugo’s .......................................................................................................... 22
Sunday 26.02.2017 .................................................................................................. 22
  Special MR-Applications ............................................................................................. 22
  iMRI in Pediatric Neurosurgery .................................................................................. 22
  MR-OR-Designs and Set-Up ........................................................................................ 23
  Closing Ceremony ...................................................................................................... 24
Faculty ..................................................................................................................... 25
Catering...................................................................................................................... 26
Evening Events
Friday 24.02.2017 Gala Dinner............................................................................... 27
Saturday 25.02.2017 Casual Dinner ........................................................................ 28
Acknowledgements ................................................................................................ 29
General Information

Registration Office

Opening Hours:
Thursday 15:00 – 21:00
Friday 7:30 – 18:00
Saturday 7:30 – 18:00
Sunday 7:30 – 11:00

Online Registrants will find their badges ready at the desk.

Onsite Registrants:
Day Ticket.............................................................................................................. 175 €
Conference Ticket:
  IOIS Members................................................................................................. 350 €
  Non-members................................................................................................. 450 €

Evening events:
24.02.2017 Neues Rathaus:.......................................................... 40 € extra
25.02.2017 Hugos..........................................................Free with conference ticket

Badges:

You are required to wear your badges at all times. The museum and the exhibition is also open to
the public. The personal is required to check the credentials to allow access to
the museum, the catering and the evening events.

Wardrobe:

There are unguarded facilities in the immediate vicinity to the Lecture Hall.

WLAN

There is no WLAN in the Sprengel Museum.

Program changes:

may be necessary for personal and organizational reasons.
General Information: Presentations

Presentations

The presentations are single track. In the Sprengel Museum Auditorium.

Due to the quantity and quality of the submissions, strict adherence to the schedule will be necessary to grant everybody time.

The length of the talks is indicated before the name of the presenting author:

- 15 minutes for introductory lectures;
- 10 minutes for plenary talks and
- 5 minutes for short communications.

These times include 2 minutes discussion. The Chairs will ensure that the time is kept. Please be considerate to your colleagues, and prepare the length of your talk according to the time allotted.

To ensure the smooth transition in between talks presentations from individual computers will not be possible. We have provided you with a link to upload your presentation. To double check, or make short-term adjustments there will be a Speakers Ready Area (see below).

You will be able to run your own presentation from a provided hardwired computer.

There will be an area for you to control your contributions on equivalent computers, depicted as Speaker’s ready area in the vicinity of the AV-Room at the upper entrance to the Auditorium. There is limited space, so be there with sufficient time before your scheduled talk. It is kindly requested, to submit your talk to the AV Team at least two sessions before your talk is scheduled. Bring a USB-stick for transfer.
**Information on Venue**

**Floorplan:**
The main entrance is on the “ground floor”. Following the red trail you will pass the Registration desk. Auditorium is in the basement.

**Catering Calder Hall (12)**
Throughout Conference
Breakfast:
Every day from 7:30
Refreshments and Lunch as in Program
Information on Venue

There are two entrances:

- Calder Saal Entrance: Opening Ceremony
- Main Entrance: Conference (see Map)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>iMRI</td>
<td>US diagnostic (iUS) therapeutic (MRgHIFUS)</td>
<td>iMRI Special Applications</td>
<td></td>
</tr>
<tr>
<td>Opening Ceremony</td>
<td>Fluorescence-guided Surgery</td>
<td>Optical imaging</td>
<td>iMRI OR-Room concepts</td>
</tr>
<tr>
<td>ICT</td>
<td>LITT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Thursday 23.03.2017

16:00 – 17:30
Board Meeting (Location TBA)

18:30 – 23:00
Opening Ceremony and Buffet Calder Room

Sprengel Museum

Entrance:
Calder Room Area (Opening Ceremony only, during the conference use main entrance)

Guided tour of Museum (Modern Art Section)
There will be two guided tours around 20:00 and 20:30 o’clock.

Menue:
Finger food buffet -served and as a self-service buffet

„Flying Buffet“ – small delicacies served in a glass

Canapés/sandwiches (made of baguettes):

Sandwiches made of ciabatta bread:

Soups:
Consommé Célestine
Clear Soup with stripes of pancake

Cream of pumpkin soup

Desserts, as a „Flying buffet“- served in a glass
Tiramisu, Panna Cotta, fresh fruit salad, Crema catalana
Friday 24.02.2017

Breakfast and Catering see page 26

8:00 – 8:30  
Welcome and Opening Remarks  
  President of IOIS R. Bucholz  
  and local organizer

8:30 – 10:00  
Brain Tumor Resection: Measuring the Extent

Chairs: AN Jha, R Bucholz, G Barbagallo

20 JC Tonn  Glioma Surgery – the spector of gross total resection  
  JC Tonn, Munich/ FRG

15 A Raco  Glioma Surgery with or without Intraoperative MRI: Retrospective Analysis of a  
  Single Surgeon Experience.  
  P Familiari, A Pesce, A Frati, M Miscusi, A Raco, Rome/ Italy

15 Y Muragaki  Smart Cyber Operating Theater(SCOT) : How to integrate MRI into a multimodal  
  information environment  
  Y Muragaki, J Okamoto, K Masamune, H Iseki, Tokyo/ Japan

10 M Scherer  Identifying Factors Triggering an Additional Resection and Determining Residual  
  Tumor Volume on Intraoperative MRI  
  M Scherer, C Jungk, S Müller, A Unterberg, Heidelberg/ FRG

10 R Jensen  Comparisons between intraoperative MRI FLAIR and T2 tumor volumes compared to  
  postoperative corresponding volumes in glioma surgery  
  R Jensen, Salt Lake City/ USA

10 A Fukui  Volumetric analysis using low-field intraoperative magnetic resonance imaging for  
  168 newly diagnosed supratentorial glioblastomas: effects of extent of resection and residual  
  tumor volume on survival and recurrence.  
  A Fukui, Y Muragaki, T Saito, T Maruyama, M Nitta, S Ikuta, T Kawamata, Tokyo/ Japan

10 L Scarpace  Intra-Class Correlations of Measured MRI Volumes of LITT-Treated High Grade  
  Gliomas  
  T Noh, L Scarpace, I Lee, Detroit, USA

10:00-10:15  Refreshments
Friday 24.02.2017

10:15 - 12:15

Brain Tumour Resection: Determining Efficacy of iMRI

Chairs: R Wirtz, M Scherer, R Diez Valle

20 A Unterberg “Results of Intraoperative Imaging – How do we determine necessity and efficacy”
AW Unterberg, Heidelberg/FRG

15 R Wirtz Combining intraoperative imaging with intraoperative functional monitoring
CR Wirtz, Ulm/Günzburg, FRG

10 M. Scherer Contemporary Use of Intraoperative MRI in Germany – A Survey among the German Study Group of Intraoperative MRI (GeSGIM)

10 J Coburger Influence of intraoperative MRI on clinical outcome of patients with only subtotally resectable glioblastoma – a multi-center retrospective comparative analysis
J. von Riehm, A. Gerber, M. Renovanz, O. Ganslandt, C.R. Wirtz, J. Coburger, Ulm/Günzburg/FRG

10 F Gessler Prognostic factors concerning progression-free and overall survival in primary glioblastoma – follow up results of a randomized trial
F. Gessler, P. Baumgarten, M.-T. Forster, A. Bink, O. Bähr, V. Seifert, C. Senft, Frankfurt/FRG

10 E. Goethe Awake craniotomies for glioma resection in an intraoperative MRI suite: analysis of 168 cases

10 F Kramář The impact of intraoperative MRI examination in glioma surgery
F. Kramář, D. Netuka, O. Bradáč, M. Mohapř, V. Masopust, M. Májovský, A. Štekláčová, V. Beneš, Prague/Czech Republic

10 C Roder Safety, value, and feasibility of continuous intraoperative electrophysiological monitoring in 1.5T iMRI-guided surgery
C. Roder, M. Breitkopf, S. Bisdas, M. Liebsch, F. Behling, M. Tatagiba, Tübingen/FRG

10 J Coburger The patients’ view: impact of extent of resection and intraoperative imaging on health-related quality of life in high-grade glioma patients – results of a multicenter observational study
Friday 24.02.2017

12:15 – 13:15 Lunch and Industry Exhibition in Calder Hall

13:15- 14:00

FA Jolesz Memorial Lecture

Introduction and Chair: T Moriarty, A Nabavi, M Hadani

Ron Kikinis   Medicine: A New World Emerges
R Kikinis Bremen/FRG and Boston/ USA

14:00 – 14:15 Refreshments

14:15 - 16:30

Fluorescence guided Surgery

Chairs: W Stummer, A Potapov, J Coburger

15 W Stummer   How to evaluate optical imaging methods
W Stummer, Münster, FRG

15 A Potapov   Fluorescence diagnostics in surgery of intracranial meningiomas: is it necessary?
A.A. Potapov, S.A. Goryaynov, Sh.T. Beshplav, G.V. Danilov, V.A. Okhlopkov,
L.V. Shishkina, V.A. Shurkhai, T.A. Savelieva, Moscow/ Russia

15 G Barbagallo   i-CT, i-US and 5-ALA fluorescence in brain tumors surgery: overtreatment or useful tools combination?
G. Barbagallo, F. Certo, Catania/ Italy

15 R Diez Valle   Multimodality guidance for Glioblastoma resection
R. Diez Valle, S. Tejada Solis, Pamplona/ Spain

15 A Jha   Primary High Grade Glioma Surgery using a combination of intraoperative Magnetic Resonance Imaging and Intraoperative Fluorescence (5-Aminolevulinic Acid): A single center experience
A.N. Jha, R. Kedia, R. Bose, V. Sharma, K.S. Narang, Gurgaon/ India

15 J Coburger   Comparison of imaging data of intraoperative MRI, 5-Aminolevulinic acid and linear array intraoperative ultrasound and histopathology: Results of a prospective study on patients harboring a glioblastoma
J. Coburger, A. Scheuerle, D. Thal, C.R. Wirtz, R. König, Ulm/Günzburg, FRG
Friday 24.02.2017

10 F Acerbi  Fluorescein-guided Surgery with a dedicated filter on the surgical microscope for resection of high-grade gliomas: Results of the multicentric Phase II Fluoglio Study
F. Acerbi, M. Broggi, K.M. Schebesch, J. Höhne, C. Cavallo, E. Anghileri, M. Eoli, M. Servida, M. Schiariti, E. La Corte, C. Boffano, A. Broggi, G. Broggi, P. Ferroli, Milano/Italy

10 F Acerbi  Fluorescein-guided Surgery with a dedicated filter on the surgical microscope: for pilocytic astrocytomas and spinal intramedullary tumors multicentric analysis
F. Acerbi, J. Höhne, T. Kırış, C. de Laurentis, C. Cavallo, F. Restelli, K.-M. Schebesch, M.K. Hamamcıoğlu, M. Broggi, M. Schiariti, M.O. Akçakaya, A. Brawanski, P. Ferroli, Milano/Italy

10 M Schwake  Simultaneous Fluorescein Sodium and 5-ALA in Fluorescence-guided Glioma Surgery: A Comparison
M Schwake, W Stummer, EJ Suero Molina, S Schipmann, G Campe, J Wölfer, Münster/ Graz FRG/Austria

10 EJ Suero Molina  Dual-labeling with ALA and Fluorescein for fluorescence-guided resection of high-grade gliomas – technical report

16:30- 16:45  Refreshments

16:45- 17:45

Special Session CT

“Intraoperative CT State of the Art and Perspectives”

Moderators: JC Tonn, A Unterberg, A Raco

C Nimsky  State of the art: Intraoperative CT as registration machine
C Nimsky, Marburg/ FRG

C Schichor  Double room CT with a sliding gantry for intraoperative imaging: feasibility and workflow analysis of an interdisciplinary concept
C Schichor, M Lenski, J Hofereiter, S Zausinger, FW Kreth, JC Tonn Munich/ FRG

M Rossi  Intraoperative use of AIRO CT: initial experience in glioma surgery
M. Rossi, M. Riva, M.C. Nibali, T. Sciortino, M. Grimaldi, F. Pessina, L. Bello, Rozzano, Milano/ Italy
Friday 24.02.2017

19:00- 23:00
Dinner at Gartensaal “Altes Rathaus”

Welcome Address
by the right honourable

Lord Mayor of Hannover

Stefan Schostok
Saturday 25.02.2017

**Breakfast and Catering see page 26**

8:00 – 10:10 Diagnostic Ultrasound

**Part I Plenary talks (8:00 – 9:10)**

**Chairs: A Nabavi, C Senft, A Steno**

10 G Unsgard  
**Use of 3D Ultrasound imaging and navigated Ultrasound aspirator in the operations of patients with low grade gliomas**  
G Unsgård, A Jakola Trondheim/ Norway

10 M Bartos  
**Advances in intraoperative ultrasound applied to neurooncology**  
M Bartos, Kralove/ Czech Republic

10 F Arlt  
**3-D reconstructed, navigated and contrast enhanced Ultrasound in 100 brain tumor patients**  
F. Arlt, C. Chalopin, A. Müns, J. Meixensberger, D. Lindner, Leipzig/ FRG

10 A Steno  
**Navigated 3D-ultrasound versus conventional neuronavigation during awake resections of eloquent low-grade gliomas**  

10 A Moiraghi  
**Navigated intra-operative ultrasound in cerebral gliomas surgery: impact on extent of resectio and patient outcome – a single center experience**  

10 A Steno  
**Surgery for insular low-grade gliomas: visualization of lenticulostriate arteries using navigated 3D-ultrasound power-Doppler**  
A. Šteňo, M. Jezberová, V. Hollý, G. Timárová, J. Šteňo, Bratislava/ Slovakia

10 I Reinertsen  
**Intra-operative ultrasound based correction of brain-shift**  
I. Reinertsen1, D.H. Iversen, F. Lindseth, W. Wein, G. Unsgård, Trondheim/ Norway

**Part II  Special Session Ultrasound (9:10- 10:10)**

“The Art and Future of Diagnostic Ultrasound”

**Moderators: C Nimsky, D Netuka, Y Muragaki**

A Moiyadi  
**Intraoperative Ultrasound – Scope and Application in Contemporary Neurosurgical Practice**  
A. Moiyadi, Mumbai/ India

F Prada  
**Contrast enhanced ultrasound and elastosonography in neurosurgery: concept and trends**  
F. Prada, Milan/ Italy

17
Saturday 25.02.2017

S Tretbar
Intraoperative ultrasound technology: systems, transducer, algorithms
Holger Hewener and Steffen H. Tretbar, St. Ingbert/ FRG

10:10-10:30 Refreshments

10:30 – 12:30

Part I Visions and new Applications (10:30-11:50)

Chairs: A Golby, J Weinberg, C Roder

Therapeutic Focused Ultrasound

40 NJ MacDannold
General Technique, Indications and Perspective
BBB-Breakdown in Neurooncology and treatment of Neurodegenerative Diseases
N.J. MacDannold, Boston/ USA

Robotics

15 G Sutherland
Neurosurgical Robotics: A Review
G.R. Sutherland, Calgary/ Canada

15 J Burgner-Kahrs
Continuum Robotics: Potential for stereotactic surgery
J Burgner-Kahrs, Hannover/ FRG

10 T Sugiyama
Intra-operative quantification of Tool-tissue Interaction Forces: A Digital Footprint of Surgical Performance
T. Sugiyama, S. Lama, L.S. Gan, Y. Maddahi, K. Zareinia, G.R. Sutherland, Calgary/ Canada

Part II Short Communication (11:50-12:30)

Chairs: J Weinberg, S Kantelhardt, D Orringer

05 A Raco
Does Envelopment in Corticospinal Tract and Cortical Surfacing predict neurological outcomes after Surgical Resection of Lesion involving Motor Pathway? A New Evaluation Scale
A. Raco, Rome/ Italy

05 X Chen
Multimodal Image-based Virtual Reality Pre-surgical Simulation and Evaluation for Trigeminal Neuralgia and Hemi-facial Spasm
X. Chen, S. Yao, B. Yang, F. Li, Y. Hou, X. Yu, Beijing/ China

05 M Maldaun
Individual testing during awake craniotomy. A personal medicine application in glioma surgery?
Saturday 25.02.2017

M. Maldaun, P. Aguiar, D. Gripp, T.V. Boas, L. Mathias, S. Verst, Sao Paulo/ Brazil

05 A Moiraghi Signatures vessel registered augmented reality in Neurosurgery
A. Moiraghi, I. Cabrilo, K. Schaller, P. Bijlenga, Genève/ Switzerland

05 D Kacher iMRI-Guided Spine Surgery: Pilot Study for Anterior Cervical Discectomy and Fusion (ACDF)
D.F. Kacher, E. Schmidt, T.C. Lee, M.B. Harris, C.M. Tempany, J. Zampini, Boston/ USA

05 M Riva 3D intraoperative Ultrasound and MR image-guidance: pursuing an ultrasound-based management of brain shift to improve neurosurgical navigation
M. Riva, C. Hennersperger, F. Milletari, A. Katouzian, F. Pessina, B. Gutierrez-Becker, A. Castellano, N. Navab, L. Bello, Rozzano/ Munich/ Milan Italy/ FRG

05 T Hollon Stimulated Raman scattering microscopy provides histologic images for automated machine learning-based histopathologic diagnosis of fresh human brain tumor specimen

05 F Acerbi Contrast-enhanced Ultrasound and quantitative ICG videoangiography with FLOW800: a synergistic approach for real time verification of maintained local brain perfusion and aneurysm occlusion in a case of complex distal MCA aneurysm
F. Acerbi, P. Ferroli, C. de Laurentis, F. Dimeco, F. Prada, Milano/ Italy

12:30 – 13:45 Business-Lunch and Industry Exhibition

13:45 – 14:30 Horizon Lecture

Introduction: J Burgner-Kahrs, A Nabavi

Sami Haddadin Brain-Machine-Interface for Intelligent Prosthesis
Director Institute of Automatic Control
Leibniz University, Hanover/ FRG

14:30 – 14:45 Refreshments
Saturday 25.02.2017

14:45 – 16:30  “Beyond Grayscale”

Chairs: G Sutherland, L Bello, V Gerganov

15 A Golby  Tissue biomarkers: the next step for intraoperative imaging A. J. Golby
AJ Golby, Boston/ USA

15 D Orringer  Stimulated Raman Scattering Microscopy
D Orringer, Ann Arbor/ USA

15 M Kirsch  Depiction of the tumor-brain interface using label-free multimodal CARS imaging
M Kirsch, Dresden/ FRG

10 T Hollon  Stimulated Raman scattering microscopy provides histopathologic images for
accurate intraoperative diagnosis of pediatric brain tumors
T. Hollon, M. Garrard, J. Tarpeh, B. Pandian, H.L. Garton, C. Maher, K.
Muraszko, S. Camelo-Piragua, D. Orringer, Ann Arbor/ USA

10 S Kantelhardt  High-resolution fluorescence microscopy for the identification of glioma tissue on
a cellular level
S Kantelhardt, Mainz/ FRG

10 K Hartmann  Optical Coherence Tomography in Neurosurgical Procedures
K. Hartmann, K.-P. Stein, B. Neyazi, I.E. Sandalcioglu, Hanover/ FRG

10 N Hoffmann  Intraoperative Imaging of Malignant Gliomas by Active Thermography
N. Hoffmann, E. Koch, G. Steiner, U. Petersohn, M. Kirsch, Dresden/ FRG

10 S Lama  Novel techniques to interrogate tumour-brain interface for enhanced intra-
operative visualization and acoustics
S. Lama, D. Proctor, S. Nelson, A. Ghasemloonia, K. Zareinia, M. Amrein, B.
Tomanek, G. Sutherland, Calgary/ Canada

16:30- 16:45  Refreshments

16:45 – 18:30  LITT

Chairs: M Schulder, D Kacher, I Lee

15 D Kacher  Overview of MRI-Guided Laser Interstitial Thermal Therapy for Neurosurgical
Applications
D.F. Kacher, W. Essayed, V. Levesque, A. Nabavi, A. Golby, Boston/ USA

15 J Honeycutt  Intra-operative imaging during insular laser ablation in children
D. Donahue, J. Honeycutt, Fort Worth/ USA
Saturday 25.02.2017

15 C Tatsui  Laser Thermotherapy for Spinal Metastatic Disease in retrospective comparison to open surgery
C.E. Tatsui, M. Oro, J. Li, A. Ghia, G. Rao, B. Amini, K. Ashok, J. Weinberg, S. Prabhu, L. Rhines, Pearland, USA

10 R Rammo  Safety and Efficacy of MR-Guided Laser Interstitial Thermal Therapy Treatment for intracranial lesions: HGG and Meningiomas
R. Rammo, A. Basheer, D. Gold, L. Scarpase, T. Walbert, S. Kalkanis, I. Lee, Detroit/ USA

10 I Lee  Phase I Trial of Safety and Efficacy of MR-Guided Laser Interstitial Thermal Therapy Treatment for Cerebral Radiation Necrosis

10 D Bastos  Predictors of local control of post-stereotactic radiosurgery brain lesions treated with laser interstitial thermal ablation

10 S Calle  Laser Interstitial Thermal Therapy for the Treatment of Intracranial Metastasis: An Evaluation of Pretreatment Tumor Features and Posttreatment Outcomes
S. Calle, D. Bastos, S. Prabhu, K. Shah, V. Kumar, Houston/ USA

10 D Fuentes  MRgLITT Induced Perfusion Changes Assessed by DCE-MRI

10 D Bastos  Use of real time thermography data during Laser Interstitial thermal therapy adjacent to eloquent white matter tracts- A preliminary experience
D. Bastos, K. Adams, H. Espinoza, G. Rao, V. Kumar, S. Prabhu, Houston/ USA

19:30- 0:30 Casual Get together at H´ugo´s
Buffet at H´ugo´s
Sunday 26.02.2017

Breakfast and Catering see page 26

8:30-10:30

Special MR-Applications

Chairs: M Tatagiba, V Paterno, J Honeycut

15 D Netuka Non-pituitary and non-glioma iMRI indications for iMRI
D. Netuka, Prague/ Czech Republic

15 X Chen Intraoperative High-field Magnetic Resonance Imaging and Multimodal
Neuronavigation Guided Surgery for Patients with Low-grade Temporal Lobe
Glioma and Epilepsy
X. Chen, Y. Zhao, S. Bai, J. Zhang, X. Yu, Beijing/ China

10 D Netuka iMRI in STH Adenomas
D. Netuka, M. Májovský, V. Masopust, T. Belšánb, J. Marek, M. Kršek, V. Hána,
J. Ježková, V. Hána, V. Beneš, Prague/ Czech Republic

10 A Pala Endoscopic versus microsurgical resection with intraoperative MRI in
transsphenoidal pituitary adenoma resection
Günzburg, FRG

10 V Paterno The utility of intraoperative MRI, high-resolution T2-weighted turbo-spin echo
sequence, in pituitary surgery
V Paterno, R Fahlbusch, Hanover/ FRG

10 M Chicoine Intraoperative imaging for cranial and cervical chordomas
M Chicoine, St.Louis/ USA

iMRI in Pediatric Neurosurgery

Chairs: M Kirsch, C Roder, S Prabhu

15 M Tatagiba Beneficial impact of high-field intraoperative MRI on effectivity of pediatric low-
grade glioma surgery
M. Tatagiba, C. Roder, M. Breitkopf, S. Bisdas, A. Dimostheni, M.U. Schuhmann,
Tübingen/ FRG

15 J Honeycutt Aborted intraoperative MR imaging during pediatric neurosurgical procedures:
causes and frequency
J. Honeycutt, R. Roberts, D. Hansen, D. Donahue, Fort Worth/ USA

10 M Giordano Application of high-field intraoperative magnetic resonance imaging in pediatric
Neurosurgery
M. Giordano, A. Samii, H. Bertalanffy, A. Nabavi, C. Di Rocco, M. Samii, R.
Fahlbusch, Hanover/ FRG
Sunday 26.02.2017

10:30-10:45  Refreshments

10:45-12:45  MR-OR-Designs and Set-Up

Chairs: M Chicoine, M Giordano, M Maldaun

15 T Kapur  Image Guided Surgery and Interventional Radiology in the AMIGO Suite
            T Kapur, Boston/ MA

10 M Maldaun  "Next Room" Intraoperative Magnetic Resonance Imaging for Awake Craniotomy
               – Preliminary Experience and Technical Note
               Docema, Sao Paulo/ Brazil

10 C de Luna  The Impact of Intraoperative Magnetic Resonance Imaging (iMRI) In A
              Community Hospital: A Retrospective Review of Cases From 2006-2016
              C.M. de Luna, L. Wilk, N. Sofoluke, Wilkes Barre/ USA

10 A Barciszewska  Development of the optimal MRI protocol for preoperative planning and
                   intraoperative assessment of glioma resection and biopsy
                   A.-M. Barciszewska, Poznan/ Poland

10 S Tejada  Intraoperative MRI, when to use it?
             S. Tejada, R. Diez, Cizur Menor/ Spain

10 C Roder  Feasibility, initial results and future aspects of intraoperative resting-state fMRI
            C. Roder, S. Biswas, M. Tatagiba, Tubingen/ FRG

10 M Schulder  Stereotactic accuracy of a compact, mobile intraoperative MRI
               M. Schulder, D. Markowitz, D. Lin, S. Salas, N. Kohn, Lake Success, USA

10 V Gerganov  Intra-paraventricular tumors: role of high-field iMRI
               V. Gerganov, H. Metwally, A. Samii, H. Bertalanffy, M. Samii, Hanover/ FRG

10 X Chen  Image-based Intraoperative Holographic Guided Neurosurgery
           X. Chen, B. Yang, S. Yao, Y. Zhao, J. Yang, Beijing/ China

15 T Lenarz  DVT in ENT
             T Lenarz, Hanover/ FRG

15 M Winking  Spinal Surgery: Do we need Robots!?
              M Winking Osnabrück/ FRG
Sunday 26.02.2017

12:45 – 13:15
Closing Ceremony

Richard Bucholz/ Mike Chicoine

Arya Nabavi

Presentation of next Venue: Houston, TX

J. Weinberg

Until 14:00 Farewell Refreshments
Faculty

Barbagallo, G  Italy, Catania
Barciszewska, AM  Poland, Poznan
Bartos, M.  Czech R., Kralove
Bello, L  Italy, Milan
Bucholz, R  USA, St. Louis
Chen, X  PR China, Beijing
Chicoine, M  USA, St. Louis
Coburger, J  FRG, Ulm/Günzburg
Diez Valle, R  Spain, Navarra
Gerganov, V.  FRG, Hannover
Giordano, M  FRG, Hannover
Golby, A  USA, Boston
Goryaynov, S  Russia, Moscow
Hadani, M  Israel, Tel Aviv
Honeycutt, J  USA, F. Worth
Jha, A  India, Delhi
Kacher, D  USA, Boston
Kahrs, L  FRG, Hannover
Kanterhardt, S  FRG, Mainz
Kapur, T  USA, Boston
Kirsch, M  FRG, Dresden
MacDannold, N  USA, Boston
Moiyadi, A  India, Mumbai
Moriarty, T  USA, Louisville
Muragaki, Y  Japan, Tokyo
Netuka, D  Czech R., Prague
Nimsky, C  FRG, Marburg
Orringer, D  USA, Ann Arbor
Paterno, V.  FRG, Hannover
Potapov, A  Russia, Moscow
Prada, F  Italy, Milan
Raco, A  Italy, Rome
Roder, C  FRG, Tübingen
Scherer, M  FRG, Heidelberg
Schulder, M  USA, Manhasset
Senft, C  FRG, Frankfurt
Steno, A  Slovak R., Bratislava
Stummer, W  FRG, Münster
Sutherland, G  Canada, Calgary
Tatagiba, M  FRG, Tübingen
Tatsui, C  USA, Houston
Tejada, S  Pamplona, Spain
Tonn, JC  FRG, Munich
Unsgard, G  Trondheim, Norway
Unterberg, A  FRG, Heidelberg
Weinberg, A  USA, Houston
Weinberg, J  FRG, Ulm/Günzburg
Wirtz, R
Catering

Throughout the conference
Selection of fresh fruits, Hot and Cold drinks

Breakfast
small selection of bakery, fresh fruit salad and yoghurt

Morning break
Sandwiches made of ciabatta bread:

Lunch

Friday
Italian style lunch buffet, Pasta

Saturday
Buffet of northern german delicacies and salads
Cream of vegetable soup

Sunday farewell snack
Buffet of mediterranean salads and delicacies
Seasonal soup

Afternoon breaks
selection of bakery

Restaurant bell’ARTE
bell’ARTE Gastronomie GmbH
Kurt-Schwitters-Platz
1
30169 Hannover
Tel.: 0511 / 809 33 33
www.bellarte.de
Gala Dinner

Friday 24.02.2017 Gartensaal, Neues Rathaus

Gartensaal, Neues Rathaus
The “Neue Rathaus” is within walking distance to the Sprengel museum and the Hotels. The trail on the map leads you to the main entrance. The entry hall shows Hannover’s development over the centuries in 4 models. The “Rathaus” itself was finished in 1913 and holds the offices of the town administration and the Lord Major.

The Lord Major Stefan Schostok is going to introduce you to his “home and castle” around 20:00 o’clock with a short welcome address.

Music by Ulf Schneider: Duo with Piano/ Violine

Address:
New City Hall, Trammplatz 2, 30159 Hannover
The Dinner will be Buffet Style at the “Gartensaal”.

Limited Spaces. Prior reservation needed. See our office for additional tickets Onsite (40 € per ticket).
Casual Dinner

Saturday 25.02.2017 H’ugo´s

The H’ugo´s is about 20 min by foot (according to Google) through Hannover City Center, which is newly built after the war. It is mostly pedestrian precinct. If you wish to go there by Subway, Aegi Subway station to Main Railway station (“Hauptbahnhof”). Exit the Railwaystation towards Ernst August Platz, turn left and cross the street.

Address:
Ernst-August Platz 10, 30159 Hannover
The Dinner will be Buffet Style

This event is free, but due to limited tickets, prior reservation is needed. See Onsite Registration desk for additional tickets.
Acknowledgments

Acknowledgements

Local Congress Organization
Muito Obrigado: Fernanda Vargas, S Menezes-Janssen, J Roeles, J Neumann, L Nabavi, R Nabavi

I owe special thanks to Prof. Dr. Dr. h.c. K. Goehrmann for advice and non-wavering help!

COCS GmbH - Congress Organisation C. Schäfer
M Wiederkrantz, J Haas, E Stricker
Rosenheimer Str. 145c
81671 München

IOIS
Melody Dian, Tony Chinn

Audio-Visual:
Chris Bertram IT-Beratung und Betreuung
Thorben Meyer

Online Abstract Submission:
abstract management tool - VSIS ConfTool
H. Weinreich, Hamburg, Germany

Catering
Restaurant bell’ARTE, Ch Stöver

Sprengel Museum Hannover

Cover
J Barke
Ingenia MR-OR intraoperative MRI delivers high-quality images during neurosurgical procedures. It helps you gain up-to-date insight on surgical progress and tumor resection to support confident intraoperative decisions and update neuronavigation.

The solution supports smooth, in-line patient transfer between the operating room and the Philips Ingenia MR system, with minimal procedure time added. Moreover, it lets you preserve your OR set-up for efficient neurosurgical workflows. Thanks to versatile configuration options, Ingenia MR-OR supports high utilization, while driving cost-effectiveness and flexibility.

Visit www.philips.com/mr-or to explore our intraoperative MR solution further.