



**NOVALISCIRCLE**  

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**EIGHTH INTERNATIONAL CONFERENCE**

September 21 – 22, 2018 | **MUNICH**

**Location:**

Munich, Germany

**Date:**

September 21 – 22, 2018

**Program Description:**

The 8<sup>th</sup> International Conference of the Novalis Circle will highlight scientific innovation, best practices and key initiatives designed to optimize clinical outcomes in oncology by integrating stereotactic radiosurgery (SRS) and stereotactic body radiation therapy (SBRT) across multidisciplinary cancer teams.



This meeting will feature today's foremost international experts in radiation oncology and neurosurgery sharing their perspectives on brain metastases, primary benign tumors, vascular malformations, functional indications, spine metastases and how new clinical paradigms offer value-based medicine and patient-centered health care.

**Objectives:**

At the conclusion of the program, participants will be able to:

- Evaluate radiosurgery alone as initial therapy for multiple brain mets
- Describe the indications, risks and outcome data for spinal SRS
- Describe the current modern management of skull based tumors
- Review the current management of AVMs

**Target Audiences:**

Radiation oncologists, neurosurgeons, medical physicists and other members of the radiation oncology community who are members of the Novalis Circle.

**Format:**

Live lecture

The 8<sup>th</sup> International Conference of the Novalis Circle is a platform for medical specialists to provide an update on prospective best practices and present key initiatives for growing the adoption and effectiveness of stereotactic radiosurgery. The presentations are grouped by clinical indication and each includes a panel discussion for the opportunity to promote understanding and scientific exchange.

## FRIDAY, SEPTEMBER 21, 2018

### BRAIN METASTASES

9:00 AM – 12:30 PM

Session Chair: Douglas Kondziolka

#### **How Research is Breaking the Rules of Brain Metastasis Patient Care**

Douglas Kondziolka, New York University Langone Medical Center, New York City, USA

#### **Benefits of Neo-Adjuvant SRS Versus En Bloc Resection**

Anthony Asher, Neuroscience Institute, Atrium Health Care System, Charlotte, USA

#### **SRS-related Complications and Long-term Maintenance of Mini-Mental State Examination Scores**

Masaaki Yamamoto, Katsuta Hospital Mito GammaHouse, Hitachinaka, Japan

#### **Clinical Implementation of Software for Treatment of Multiple Brain Metastases**

Maximilian Niyazi, LMU University Hospital of Munich, Munich, Germany

#### **Clinical Outcomes Utilizing Software for Treatment of Multiple Brain Metastases**

Prabhakar Tripuraneni, Scripps M.D. Anderson Cancer Center, La Jolla, USA

### BREAK

10:15 AM – 10:45 AM

#### **Next Technological Iteration for Treatment of Multiple Brain Metastases**

Susanne Rogers, Kantonsspital, Aarau, Switzerland

#### **Treatment Response Assessment and Retreatment Decision Making**

Diana Horvath-Rizea, Klinikum Stuttgart, Stuttgart, Germany

#### **Role of Radiosurgery for Treatment of Brain Metastases in the Era of Targeted and Immunotherapies**

Veronica Chiang, Yale University, New Haven, USA

#### **Clinical Evaluation of Neurocognitive Assessment Tools**

Mark de Ridder, Universitair Ziekenhuis Brussel, Brussels, Belgium

#### **Patient Specific QA and IGRT Requirements in Single Isocenter Treatments**

Nzhde Agazaryan, University of California Los Angeles, Los Angeles, USA

#### **Poster Winner Presentation (5min)**

#### **Treatment of Multiple Brain Metastases Using Single Isocentric Technique with Forward Planned Dynamic Arcs**

Deborah Jiang, Department of Radiation Oncology, Kaiser Permanente Los Angeles, Los Angeles, USA

#### **Q&A (25min)**

Panel Discussion

### LUNCH

12:30 PM – 1:30 PM



## BENIGN BRAIN TUMORS

1:30 PM – 3:00 PM

Session Chair: Javier Fandino

### **Management News for Patients with Benign Skull Base Tumors**

Javier Fandino, Kantonsspital, Aarau, Switzerland

### **Improved Intraoperative Visualizations to Enhance Extent of Resection**

Orin Bloch, Northwestern Memorial Hospital, Chicago, USA

### **The Role of Surgical Planning for Vestibular Schwannoma Surgery**

Isaac Yang, University of California Los Angeles, Los Angeles, USA

### **Standardizing Radiosurgical Treatment with New Automated Software for Cranial SRS**

Reinhard Wurm, Klinikum Frankfurt Oder, Frankfurt Oder, Germany

### **Clinical Outcomes Utilizing New Automated Software for Radiosurgical Treatment of Primary Tumors**

Kenneth Usuki, University of Rochester Medical Center, Rochester, USA

### **Q&A (15min)**

Panel Discussion

## BREAK

3:00 PM – 3:20 PM

## GROUP PICTURE

## SPINE TUMORS

3:30 PM – 5:00 PM

Session Chair: Yoshiya Yamada

### **Management News for Patients with Spinal Metastasis**

Yoshiya (Josh) Yamada, Memorial Sloan Kettering Cancer Center, New York City, USA

### **Clinical and Technical Considerations for Post-Operative SBRT – An Emerging Paradigm Shift**

Arjun Sahgal, Sunnybrook Health Sciences Centre, Toronto, Canada

### **Patterns of Failure and SRS Planning Volume Considerations for Patients with Metastatic Sarcoma**

Amol Ghia, University of Texas M.D. Anderson Cancer Center, Houston, USA

### **Starting a Radiosurgical Program and Benefits of Modern Software Tools**

Filippo Alongi, Ospedale Sacro Cuore – Don Calabria, Negrar, Italy

### **Poster Winner Presentation (5min)**

### **Intensity-Modulated Stereotactic Radiotherapy for Intramedullary Cervical Spinal Metastases: Report of 2 Cases**

Yoshimasa Mori, Shin-Yurigaoka General Hospital, Kawasaki, Japan

### **Q&A (25min)**

Panel Discussion

7:00 PM NOVALIS CIRCLE SOCIAL EVENING EVENT  
AT GUTSHOF MENTERSCHWAIGE



**SATURDAY, SEPTEMBER 22, 2018**  
**MAIN SESSION**

**ARTERIOVENOUS MALFORMATIONS**

9:00 AM – 10:15 AM

Session Chair: Reinhard Wurm

**Management News for Patients with AVMs**

Reinhard Wurm, Klinikum Frankfurt Oder, Frankfurt Oder, Germany

**The Role of Focal Therapy for ARUBA-Eligible Patients**

Howard Riina, New York University Langone Medical Center,  
New York City, USA

**AVM Nidus Definition via Planar DSA Co-Registration with  
MRI-based Maximum Intensity Projections**

Mohsen Javadpour, Beaumont Hospital, Dublin, Ireland

**Hypo-Fractionated Stereotactic Radiosurgery Management of  
Large Arteriovenous Malformations**

Jan Boström, University Hospital of Bonn (UKB), Bonn, Germany

**Poster Winner Presentation (5min)**

**Validation of Smartbrush Angio Registration for Frameless  
Stereotactic Targeting of Brain AVM**

Ingrid Kuijper, Amsterdam UMC, Amsterdam, Netherlands

**Q&A (10min)**

Panel Discussion

**BREAK**

10:15 AM – 10:30 AM

**NEW RADIOSURGERY TECHNOLOGIES**

10:30 AM – 12:25 PM

Session Chair: Antonio De Salles

**Management News for Patients with Functional Disorders**

Antonio De Salles, Hospital do Coracao (HCor), University of California  
Los Angeles, Sao Paulo, Brazil

**Benefits of Data Enrichment Solutions for Gamma Knife  
Radiosurgery Planning**

Selcuk Peker, Koc University, Istanbul, Turkey

**Effects of MRI Distortions for Target Definitions in Functional  
Treatments**

Thierry Gevaert, Universitair Ziekenhuis Brussel, Brussels, Belgium

**Expanding Novalis Radiosurgery Applications for Functional  
Indications**

Michael Dally, ICON Cancer Centre, Epworth Hospital, Melbourne,  
Australia

**Radiosurgery Registry Data Mining: Process and Results from  
the First 3000 Patients**

Douglas Kondziolka, New York University Langone Medical Center,  
New York City, USA

**How Machine Learning Can Improve Medical Outcomes**

Eric Oermann, Mount Sinai School of Medicine, New York City, USA

**Poster Winner Presentation (5min)**

**Evaluation of New Software for OAR Contouring**

Olaf Wittenstein, Universitätsklinikum Schleswig-Holstein Campus Kiel,  
Kiel, Germany

**Q&A (20min)**

Panel Discussion

**12:30 PM CLOSING REMARKS**

**LUNCH**

12:45 PM – 2:00 PM

**SATURDAY, SEPTEMBER 22, 2018**  
**PARALELL SESSION**

**PHYSICS**

9:00 AM – 12:00 PM

Session Chair: Timothy Solberg

**Complex Multifocal Planning and IGRS Requirements**

Manuel Todorovic, University Medical Center Hamburg-Eppendorf (UKE), Hamburg, Germany

**Dosimetric Comparison of Two Planning Software Applications for Treatment of Brain Metastases**

Marie-Claude Biston, Centre Léon Bérard, Lyon, France

**MLC Leakage Analysis for Quality Assurance**

Charles Geraghty, Anne Arundel Medical Center, Annapolis, United States

**Frameless Radiosurgery Clinical Validation for Functional Radiosurgery Patients**

Thierry Gevaert, Universitair Ziekenhuis Brussel, Brussels, Belgium

**Frameless Radiosurgery Accuracy for Elekta Configurations**

Philipp Freisleder, LMU University Hospital of Munich, Munich, Germany

**BREAK**

10:15 AM – 10:30 AM

**Dosimetric Evaluation of New Automated Planning Tools for Spine SRS**

Niko Papanikolaou, Mays Cancer Center – UT Health San Antonio, MD Anderson Cancer Center, San Antonio, USA

**Clinical Implementation and Quality Assurance for Spine Radiosurgery**

Daniel Venencia, Instituto Zunino – Fundacion Marie Curie, Cordoba, Argentina

**The Means for Radiosurgery Quality Management:**

**Novalis Certified**

Timothy Solberg, University of California San Francisco, San Francisco, USA

**Poster Winner Presentation (5 min)**

**Comparison of Linac-Based Single Isocenter Dynamic Conformal Arc Software to Cobalt-Based Multiple Isocenter Planning Software**

Michel Chea, Radiation Oncology Department, Groupe Hospitalier Pitié-Salpêtrière, Paris, France

**Q&A (30 min)**

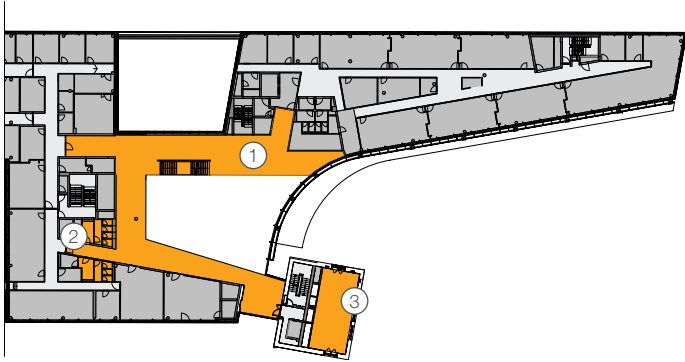
Panel Discussion

**12:30 PM CLOSING REMARKS**

**LUNCH**

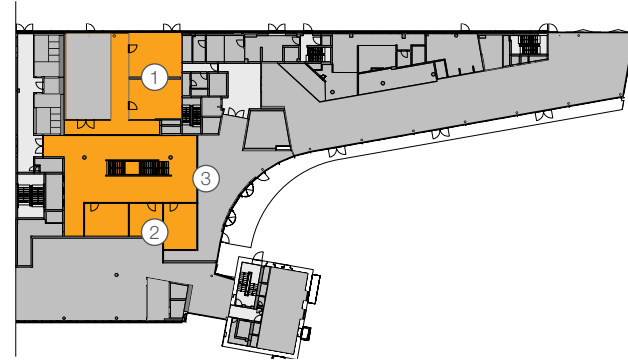
12:45 PM – 2:00 PM

## 1<sup>ST</sup> FLOOR



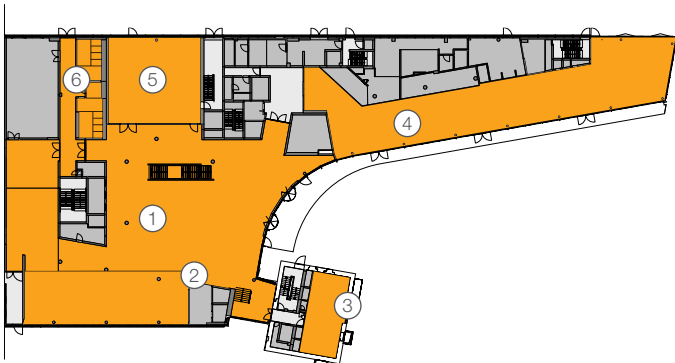
- ① Posters  
Novalis Certified  
IME Registration  
Coffee Bar
- ② Restrooms
- ③ Brainlab Tower

## BRAINLAB CLINIC (-1 FLOOR)



- ① Oncology
- ② Neurosurgery
- ③ Coffee Bar

## GROUND LEVEL



- ① Atrium
- ② Registration
- ③ Brainlab Tower  
Coffee Bar
- ④ Restaurant
- ⑤ Auditorium
- ⑥ Restrooms

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**ACCREDITATION STATEMENT:** The Institute for Medical Quality/California Medical Association (IMQ/CMA) to provide continuing medical education for physicians.

**CREDIT DESIGNATION STATEMENT:** The Institute for Medical Education designates this live activity for a maximum of 13 AMA PRA Category 1 Credit(s)<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This meeting has applied to ABR for self-assessment continuing medical education credits toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program. \*Will be defined once the agenda is finalized.

In accordance with the ACCME's revised Standards of Commercial Support, potential conflicts of interest are thoroughly vetted by the Executive Committee of IME. All conflicts are resolved prior to the beginning of the activity by the IME peer review process. The opinions expressed in this activity are those of the faculty and do not necessarily reflect those of IME.

Provider approved by the California Board of Registered Nursing, provider number 10672 for a maximum of 12.5 contact hour(s).

**CULTURAL AND LINGUISTIC COMPETENCY:** California Assembly Bill 1195 requires continuing medical education activities with patient care components to include curriculum in the subjects of cultural and linguistic competency. The planners and speakers of this CME activity have been encouraged to address cultural issues relevant to their topic area. The Institute for Medical Education Resources for Physicians also contains many useful cultural and linguistic competency tools including culture guides, language access information and pertinent state and federal laws. You are encouraged to visit the portal: [http://www.ime-cme.com/forms/Cultural\\_Linguistic\\_Competency\\_Resources.pdf](http://www.ime-cme.com/forms/Cultural_Linguistic_Competency_Resources.pdf)

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