

# THE BRAIN AND GLIOMAS

WHEN THE CONNECTIONS ARE CRUCIAL

## Presidents

Marco Maria Fontanella  
Giannantonio Spena



Aula Magna, Faculty of Medicine  
University of Brescia

**Sept. 24<sup>th</sup>-26<sup>th</sup> 2015**



**CALL FOR ABSTRACT**  
deadline for submission  
**May 31<sup>st</sup>, 2015**

**First Announcement**

# AND THE BRAIN AND GLIOMAS

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September 24<sup>th</sup> – 26<sup>th</sup>, 2015

## Presidents

**Marco Maria Fontanella**  
**Giannantonio Spena**

Clinica di Neurochirurgia  
Università degli Studi di Brescia  
Spedali Civili di Brescia  
P.le Spedali Civili, 1 – 25123 Brescia, Italy

## Scientific Committee

**Mitchell Berger** (Usa)  
**Alberto Bizzi** (Italy)  
**Domenico D'Avella** (Italy)  
**Flavio Dell'Acqua** (UK)  
**Alessandro Ducati** (Italy)  
**Hugues Duffau** (France)  
**Roberto Gasparotti** (Italy)  
**Nicola Latronico** (Italy)  
**Stefano Magrini** (Italy)  
**Gabriele Miceli** (Italy)  
**Carlo Miniussi** (Italy)  
**Alessandro Padovani** (Italy)  
**Pier Paolo Panciani** (Italy)  
**Nick Ramsey** (Netherland)  
**Miran Skrap** (Italy)  
**Alessandro Vercelli** (Italy)

The structural and functional systems of the brain have complex networks in which connections play a prominent role. Gliomas are infiltrating tumors that can alter the normal function of these connections in different ways. Operating on and dealing with these tumors requires a global approach that considers the tumor relative to the brain, and therapeutic goals are measured in terms of quality of life and effective brain functioning. Consequently, neurosurgeons need to assemble a large amount of information before deciding to operate. As never before, modern neurosurgeons have the opportunity to enrich their cultural background through the translational flow of information as a result of neuroscience research. Intraoperative brain mapping techniques provide the unique opportunity to directly explore brain function and represent an extraordinary integration with non invasive methods. The aim of this congress is to gather international leading experts from different neuroscience domains to foster the exchange of knowledge between basic and clinical neuroscientists. It will represent close interactions between neurosurgeons, neurologists, neurophysiologists, neuroradiologists, neuropsychologists and basic neuroscientists. Connections will be the keyword of the congress, as the talks will explore interactions between the brain and gliomas, beginning with the normal structure and function of the brain through fascinating research in cortical and subcortical brain anatomy and theoretic brain function modeling. Non-invasive brain mapping techniques, such as fMR (active and resting state), TMS and neuropsychology exploration, will also be discussed, leading to a core feature of the congress, which includes the latest surgical techniques and intraoperative brain mapping. An entire section will be dedicated to outcome measures, with a special emphasis on quality of life from neurosurgical and neuropsychological perspectives. Indeed, connections between brain surgeons, neuroscientists, neuroimaging experts and neuropsychologists is definitely a keyword in modern glioma therapy.

Marco Maria Fontanella

Giannantonio Spena



## Auspices and Patronage



Associazione Italiana di Neuro-Oncologia



## Requested Auspices and Patronage

**EANS** The European Association of Neurosurgical Surgeon

**ISMRM** Italian Chapter International Society for Magnetic Resonance in Medicine

## Invited Faculty

**Juan Barcia** (Spain)

**Lorenzo Bello** (Italy)

**Mitchell Berger** (USA)

**Alberto Bizzi** (Italy)

**Matteo Caleo** (Italy)

**Antonella Castellano** (Italy)

**Flavio Dell'Acqua** (UK)

**Francesco DiMeco** (Italy)

**Hugues Duffau** (France)

**Gesa Hartwigsen** (Germany)

**Giorgio Innocenti** (Sweden)

**Martin Klein** (Netherlands)

**Giorgio Lo Russo** (Italy)

**Emmanuel Mandonnet** (France)

**Juan Martino** (Spain)

**Gabriele Miceli** (Italy)

**Carlo Miniussi** (Italy)

**Costanza Papagno** (Italy)

**Thomas Picht** (Germany)

**Nick Ramsey** (Netherlands)

**John Rothwell** (UK)

**Roberta Rudà** (Italy)

**Miran Skrap** (Italy)

**Walter Stummer** (Germany)

**Alessandro Vercelli** (Italy)

## Tentative Schedule

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### Thursday, September 24<sup>th</sup>, PM

#### The microscopic basis of plasticity

- Physiology and plasticity of interhemispheric connections
- Cortical Axons, geometrical and time computing properties
- Subcortical connectivity of the insula
- Cadaver fiber dissection

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### Friday, September 25<sup>th</sup>, AM

#### Functional neuroimaging

##### Non-invasive Brain mapping technique

- Studying brain function with task-free fMRI
- TMS-EEG and connectivity
- TMS: usefulness in presurgical planning and navigated TMS
- Therapeutic non-invasive brain stimulation: what limits treatment success?
- DTI fiber tracking in brain tumors: overcoming the limits

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### Friday, September 25<sup>th</sup>, PM

#### Functional neuro-oncological surgery

- Preoperative and intraoperative cognitive assessment in glioma patients
- Tailoring neurophysiological strategies in gliomas involving motor pathways
- Brain plasticity and surgical resection of gliomas
- Functional outcome after language mapping for glioma resection
- Microsurgery and complications avoidance: merging functional concept and microsurgical cornerstones
- Intraoperative contrast enhanced ultrasound (CEUS) in brain tumor surgery
- 5-ALA update

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### Saturday, September 26<sup>th</sup>, AM

#### Outcomes: quality of life, seizures, neuroimaging

##### Redefining quality of life and treatment objectives

- The role of neurocognitive assessment in the follow-up of gliomas
- When is an epileptic presurgical evaluation necessary in patients with gliomas and epilepsy?
- Towards a prophylactic and functional neuro-oncology
- When not to operate? Factors predicting EOR and neurological outcome
- Role of diffusion tensor magnetic resonance tractography in predicting the extent of resection in glioma surgery

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### Call for Abstracts

**Deadline for submission: May 31<sup>st</sup>, 2015**

# Scientific Information

## Topics of the meeting:

- Brain connections from an anatomical perspective
- The anatomical and microanatomical basis of plasticity
- Cadaver fiber dissection
- Preoperative non invasive brain mapping techniques
- Functional connectivity on fMRI
- fMRI and resting state in presurgical planning
- Diffusion tensor imaging: presurgical usefulness and future developments
- TMS in preoperative setting
- TMS and mapping of functional and effective connectivity
- Therapeutic non invasive brain stimulation
- Pre, intra and follow-up neuropsychological assessment
- How gliomas alter brain connectivity
- Intraoperative brain mapping: the right technique for the right patient
- Intraoperative Neurophysiological monitoring
- Intraoperative anesthesia protocols to improve patients' cooperation
- New surgical tools to enhance resection of gliomas
- Quality of life assessment
- Seizures and gliomas
- New imaging techniques for the diagnosis and follow-up of gliomas

## OFFICIAL LANGUAGES

The official language of the meeting is English without simultaneous translation.

## CALL FOR ABSTRACTS

The Organizing Committee invites You to participate actively at the Meeting. You are kindly invited to submit your abstracts in English for oral presentation using the online form on [www.mymeetingsrl.com](http://www.mymeetingsrl.com)

The receipt of abstract will be acknowledged automatically by e-mail to the presenting author upon the on-line submission.

Notification of acceptance/rejection will be notified not later than June 30<sup>th</sup>, 2015.

### Deadline for abstract submission: May 31<sup>st</sup>, 2015

Abstract submitted after the deadline might be not accepted.

*All participants must register for the Meeting in order to be accepted as speakers presenters, unless invited.*

## VENUE

### AULA MAGNA

FACULTY OF MEDICINE - UNIVERSITY OF BRESCIA

Viale Europa, 11 - 25123 Brescia • Italy - Ph. +39 030 2988201

## REGISTRATION FEES (VAT included)

<b>Regular</b>	<b>€ 150,00</b>
<b>Residents and Trainees<sup>o</sup> Accompanying person Company Staff*</b>	<b>€ 100,00</b>

<sup>o</sup>Proof must be provided by the Program Director

\* In addition to those included in the sponsorship agreement

The Regular, Residents and Trainees registration fee includes:

- Attendance to all Scientific Sessions
- Entrance to the exhibition area
- Attendance Certificate
- Badge and Meeting Kit
- Food & Beverage

The Accompanying Person registration fee includes:

- Difference between single and double room
- Food & Beverage

The Company Staff registration fee includes:

- Entrance to the exhibition area
- Food & Beverage

Registration Form will be available on our web site [www.mymeetingsrl.com](http://www.mymeetingsrl.com)

## CME Accreditation

CME Accreditation will be requested for the italian participants only.

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More details on  
[www.mymeetingsrl.com](http://www.mymeetingsrl.com)



Organizing  
Secretariat

My  
Meeting

**My Meeting S.r.l.**

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