

THE BRAIN AND GLIOMAS

WHEN THE CONNECTIONS ARE CRUCIAL

Presidents

Marco Maria Fontanella
Giannantonio Spena



Aula Magna, Faculty of Medicine
University of Brescia

Sept. 24th-26th 2015



Final Program



Johnson & Johnson **MEDICAL S.P.A.**

AND THE BRAIN AND GLIOMAS

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September 24th – 26th, 2015

Presidents

Marco Maria Fontanella
Giannantonio Spena

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Università degli Studi di Brescia
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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



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Thursday, September 24 th , 2015	14.00	Registration
	15.00	Opening Ceremony
	15.25	Introduction
	15.30	I Session THE MICROSCOPIC BASIS OF PLASTICITY - 1st part
	16.30	Key Lecture Alessandro Vercelli (Turin, Italy)
	17.00	17.40 - 18.10 Coffee Break
	18.10	II Session THE MICROSCOPIC BASIS OF PLASTICITY - 2nd part
19.00	Adjourn and Welcome aperitif	
Friday, September 25 th , 2015	08.30	III Session FUNCTIONAL NEUROIMAGING NON-INVASIVE BRAIN MAPPING TECHNIQUE - 1st part
	09.10	Key Lecture John Rothwell (London, UK)
	09.40	10.20 - 10.50 Coffee Break
	10.50	IV Session FUNCTIONAL NEUROIMAGING NON-INVASIVE BRAIN MAPPING TECHNIQUE - 2nd part
	12.10	V Session FUNCTIONAL NEUROIMAGING NON-INVASIVE BRAIN MAPPING TECHNIQUE - 3rd part
		13.20 - 14.00 Buffet Lunch
	14.00	VI Session FUNCTIONAL NEURO-ONCOLOGICAL SURGERY - 1st part
	15.20	Key Lecture Hugues Duffau (Montpellier, France)
	15.50	15.50 - 16.20 Coffee Break
	16.20	VII Session FUNCTIONAL NEURO-ONCOLOGICAL SURGERY - 2nd part
16.20	Key Lecture Mitchel S. Berger (San Francisco, USA)	
16.50		
18.10	VIII Session FUNCTIONAL NEURO-ONCOLOGICAL SURGERY - 3rd part	
19.20	Adjourn	
Saturday, September 26 th , 2015	08.30	IX Session OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING - 1st part
		10.10 - 10.40 Coffee Break
	10.40	X Session OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING - 2nd part
	10.40	Key Lecture Mitchel S. Berger (San Francisco, USA)
	11.10	
	12.30	XI Session OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING - 3rd part
13.40	Closing Remarks	
13.50	End of the Meeting	

14.00
15.00 Registration

15.00 Opening Ceremony
Marco M. Fontanella
 • Meeting President
Sergio Pecorelli
 • Rector University of Brescia
Ezio Belleri
 • General Director Spedali Civili of Brescia
Maurizio Memo
 • Dept. Molecular Medicine University of Brescia
Alberto Delitala
 • SINch President

15.25 Introduction
Giannantonio Spena • Meeting Co-President

I Session THE MICROSCOPIC BASIS OF PLASTICITY – 1st part

Moderators:

Maria Cristina Missale (Brescia, Italy)
Alessandro Ducati (Turin, Italy)

7' presentation + 3' discussion

15.30 CORTICAL AXONS, GEOMETRICAL AND TIME
COMPUTING PROPERTIES
Giorgio Innocenti (Stockholm, Sweden)

15.50 POSTLESIONAL CORTICAL PLASTICITY
Eric Rouiller (Fribourg, Swiss)

16.10 GLIOMA-INDUCED PLASTICITY IN THE MOUSE
CEREBRAL CORTEX
Matteo Caleo (Pisa, Italy)

16.30 **Key Lecture**
ANATOMICAL CONNECTIVITY OF CORTICAL
PROJECTION NEURONS
Alessandro Vercelli (Turin, Italy)

17.00 THE FIBRATLAS PROJECT: USING DISSECTION TO
VALIDATE MR-TRACTOGRAPHY
Christophe Destrieux, Ilyess Zemmoura
 (Tours, France)

17.20 CADAVER 3D FIBER DISSECTIONS
Juan Martino Gonzalez (Santander, Spain)

17.40 Coffee Break

II Session THE MICROSCOPIC BASIS OF PLASTICITY – 2nd part

Moderators:

Diego Garbossa (Turin, Italy)
Juan Martino Gonzalez (Santander, Spain)

7' presentation + 3' discussion

18.10 19.00 SELECTED ORAL COMMUNICATIONS

18.10 CEREBELLUM CLUSTERING AND FUNCTIONAL
CONNECTIVITY DURING PAIN PROCESSING
F. D'Agata, M. Diano, F. Cauda, T. Costa, K. Sacco,
 S. Duca, D.M. Torta, C.G. Geminiani (Turin, Italy)

18.20 SPECIFIC DISGUST PROCESSING IN THE LEFT
INSULA: NEW EVIDENCE FROM DIRECT
ELECTRICAL STIMULATION
A. Pisoni, G. Mattavelli, A. Casarotti, A. Comi,
 F. Fumagalli, M. Vernice, E. Fava, M. Riva, L. Bello,
 C. Papagno (Milan, Italy)

18.30 FUNCTIONAL CONNECTIVITY CHANGES IN THE
PRESENCE OF GLIOBLASTOMAS
N. Tuovinen^{1,2}, F. de Pasquale^{1,2}, C. Falletta Caravasso¹,
 E. Giudice¹, R. Miceli¹, G. Ingrassio¹, R. Santoni¹,
 U. Sabatini¹ (¹Rome, Italy; ²Chieti, Italy)

18.40 EFFECTS OF KLINGLER'S PREPARATION AND
DISSECTION ON HUMAN WHITE MATTER
ULTRASTRUCTURE. AN ELECTRON MICROSCOPY
STUDY
I. Zemmoura, E. Blanchard, P.I. Raynal, C. Rousselot-
 Denis, C. Destrieux, S. Velut (Tours, France)

18.50 LEFT FRONTAL ASLANT TRACT AND LANGUAGE
FUNCTION: A CORTICAL-SUBCORTICAL
STIMULATION MAPPING STUDY
R. Lau, A. Fernández-Coello, J. Sierpowska, À. Camins,
 S. Castañer, M. Juncadella, A. Gabarrós (Barcelona, Spain)

19.00 Adjourn **Welcome Aperitif**

Friday, September 25th, 2015

III Session FUNCTIONAL NEUROIMAGING NON-INVASIVE BRAIN MAPPING TECHNIQUE – 1st part

Moderators:

Antonino Germanò (Messina, Italy)
Alessandro Padovani (Brescia, Italy)

17' presentation + 3' discussion

- 08.30 TMS-EEG AND CONNECTIVITY
Carlo Miniussi (Brescia, Italy)
- 08.50 HOW DOES TRANSCRANIAL MAGNETIC STIMULATION MODIFY NEURONAL ACTIVITY IN THE BRAIN? IMPLICATIONS FOR STUDIES OF COGNITION
Gesa Hartwigsen (Kiel, Germany)
- 09.10 **Key Lecture**
THERAPEUTIC NON-INVASIVE BRAIN STIMULATION: WHAT LIMITS TREATMENT SUCCESS?
John Rothwell (London, UK)
- 09.40 INDUCING CORTICAL PLASTICITY WITH CORTICAL STIMULATION
Juan A. Barcia Albacar (Madrid, Spain)
- 10.00 TMS: USEFULNESS IN PRESURGICAL PLANNING AND NAVIGATED TMS
Thomas Picht (Berlin, Germany)

10.20 Coffee Break

IV Session FUNCTIONAL NEUROIMAGING NON-INVASIVE BRAIN MAPPING TECHNIQUE – 2nd part

Moderators:

Mauro Bergui (Turin, Italy)
Roberto Gasparotti (Brescia, Italy)

17' presentation + 3' discussion

- 10.50 STUDYING BRAIN FUNCTION WITH TASK-FREE FMRI
Nicolas F. Ramsey (Utrecht, Netherlands)
- 11.10 MR DIFFUSION TRACTOGRAPHY: OVERCOMING THE LIMITS OF DTI
Flavio Dell'Acqua (London, UK)
- 11.30 CLINICAL IMPACT OF PRESURGICAL MAPPING IN ELOQUENT AREAS WITH FMRI AND MR DIFFUSION TRACTOGRAPHY
Alberto Bizzi (Milan, Italy)
- 11.50 Discussion

V Session FUNCTIONAL NEUROIMAGING NON-INVASIVE BRAIN MAPPING TECHNIQUE – 3rd part

Moderators:

Giorgio Carrabba (Milan, Italy)
Roberto Stefani (Brescia, Italy)

7' presentation + 3' discussion

12.10 13.20 SELECTED ORAL COMMUNICATIONS

- 12.10 MAPPING MOTOR CORTEX WITH TASK-BASED AND RESTING-STATE fMRI: A COMPARATIVE ASSESSMENT
C. Rosazza¹, **D. Aquino**¹, **L. D'Incerti**¹, **R. Cordella**¹, **A. Andronache**¹, **D. Zacà**², **M.G. Bruzzone**¹, **G. Tringali**¹, **L. Minati**^{1,2} (¹Milan, Italy; ²Trento, Italy)

- 12.20 ADVANCED MAPPING OF THE CORTICO-SPINAL TRACT IN BRAIN TUMORS: MR HARDI Q-BALL TRACTOGRAPHY OF THE DIFFERENT COMPONENTS ACCORDING TO THEIR FUNCTIONAL ORIGIN AND VALIDATION WITH INTRAOPERATIVE STIMULATION

A. Castellano¹, G. Cerri², V. Blasi¹, Paola Scifo^{1, 3}, M. Riva², E. Caverzasi³, K. M. Jordan³, N. Papinutto³, E. Fava², L. Fornia², V. Ferpozzi², M. Rossi², A. Iadanza¹, S. Crespi¹, R. G. Henry¹, L. Bello², A. Falini¹
(¹Milan, Italy; ²Rozzano, Milan Italy; ³San Francisco, USA)

- 12.30 CSD MRI TRACTOGRAPHY IN PRESURGICAL PLANNING OF FRONTO-PARIETAL HIGH-GRADE GLIOMAS

C. Alafaci, F. Granata, E. Mormina, D. Marino, M. Longo, F. Tomasello (Messina, Italy)

- 12.40 NAVIGATED TRANSCRANIAL MAGNETIC STIMULATION FOR LANGUAGE MAPPING INPATIENTS WITH BRAIN LESIONS IN DOMINANT PERYSILVIANAREAS: EVIDENCE OF LANGUAGE INTRA-HEMISPHERIC PLASTICITY AND IMPACT ON OUTCOME

A. Germanò, A. Conti, G. Raffa, A. Scibilia, C. Sindorio, M. Quattropiani, F. Tomasello (Messina, Italy)

- 12.50 NTMS-BASED DTI FIBER TRACKING OF LANGUAGE PATHWAYS IN BRAIN TUMOR PATIENTS: A FEASIBILITY STUDY

G. Raffa¹, I. Bährend², P. Vajkoczy², T. Picht²
(¹Messina, Italy; ²Berlin, Germany)

- 13.00 PREOPERATIVE PLANNING BASED ON NAVIGATED TRANSCRANIAL MAGNETIC STIMULATION IMPROVES SURGICAL TREATMENT OF BRAIN LESIONS LOCATED NEAR THE MOTOR PATHWAY

A. Germanò, A. Conti, G. Raffa, A. Scibilia, C. Sindorio, M. Quattropiani, F. Tomasello (Messina, Italy)

- 13.10 PRESURGICAL MAPPING IN GLIOMAS: RESULTS OF THE ITALIAN DTI TRACTOGRAPHY CHALLENGE

G. K. Ricciardi, G. Spena, A. Castellano, M. Caulo, T. Ius, M. Thiebaut de Schotten, A. Bizzi (Brescia, Italy)

13.20 Buffet Lunch
14.00

**VI Session
FUNCTIONAL NEURO-
ONCOLOGICAL SURGERY – 1st part**

Moderators:

Carmine M. Carapella (Rome, Italy)
Marco M. Fontanella (Brescia, Italy)

17' presentation + 3' discussion

- 14.00 PREOPERATIVE AND INTRAOPERATIVE COGNITIVE ASSESSMENT IN GLIOMA PATIENTS
Gabriele Miceli (Rovereto, TN, Italy)

- 14.20 SURVIVAL AND FUNCTIONS IN LOW GRADE GLIOMAS
Miran Skrap (Udine, Italy)

- 14.40 A NEW PHILOSOPHY IN SURGERY FOR DIFFUSE LOW-GRADE GLIOMAS: TOWARDS A PROPHYLACTIC AND FUNCTIONAL NEURO-ONCOLOGY
Hugues Duffau (Montpellier, France)

- 15.00 TAILORING NEUROPHYSIOLOGICAL STRATEGIES IN GLIOMAS INVOLVING MOTOR PATHWAYS
Lorenzo Bello (Rozzano, MI, Italy)

Friday, September 25th, 2015

15.20 **Key Lecture**
BRAIN PLASTICITY AND SURGICAL RESECTION
OF GLIOMAS
Hugues Duffau (Montpellier, France)

15.50 Coffee Break

VII Session FUNCTIONAL NEURO- ONCOLOGICAL SURGERY – 2nd part

Moderators:

Vincenzo Esposito (Pozzilli, IS, Italy)
Giannantonio Spena (Brescia, Italy)

16.20 **Key Lecture**
FUNCTIONAL OUTCOME AFTER LANGUAGE
MAPPING FOR GLIOMA RESECTION
Mitchel S. Berger (San Francisco, USA)

17' presentation + 3' discussion

16.50 5-ALA UPDATE
Walter Stummer (Münster, Germany)

17.10 INTRAOPERATIVE CONTRAST ENHANCED
ULTRASOUND (CEUS) IN BRAIN TUMOR
SURGERY
Francesco DiMeco (Milan, Italy)

17.30 INTRAOPERATIVE NEUROPHYSIOLOGICAL
MONITORING FOR THE RESECTION OF BRAIN
TUMORS IN PEDIATRIC PATIENTS
Francesco Sala (Verona, Italy)

17.50 Discussion

VIII Session FUNCTIONAL NEURO- ONCOLOGICAL SURGERY – 3rd part

Moderators:

Manuela A. Caroli (Milan, Italy)
Gianluigi Zona (Genova, Italy)

7' presentation + 3' discussion

18.10 19.20 SELECTED ORAL COMMUNICATIONS

18.10 SUBCORTICAL LANGUAGE MAPPING IN AWAKE
BRAIN SURGERY: FOCUS ON (NEW) QUICK
MIXED TESTS (QMT) AND INDUCED
SPONTANEOUS SPEECH (ISS)
E. Robert, A. Aerts, D. Colle, B. Noens, G. Alessi,
B. D'haen, H. Colle (Ghent, Belgium)

18.20 STRAIN ELASTOSONOGRAPHY IN GLIOMA
SURGERY
F. Prada, **L. Mattei**, A. Moiraghi, A. Rampini,
M. Del Bene, F. DiMeco (Milan, Italy)

18.30 AWAKE CRANIOTOMY: XENON ANESTHESIA
AND DEXMEDETOMIDINE SEDATION AS
ALTERNATIVES FOR PROPOFOL
A. Kulikov, D. Sel'kov, G. Kobayakov, S. Buklina,
A. Lubnin (Moscow, Russia)

18.40 INTRAOPERATIVE LANGUAGE MAPPING WITH
NOUNS AND FINITE VERBS
A. Rofes¹, G. Spena², A. Talacchi³, B. Santini³,
A. Miozzo², G. Miceli¹ (¹Trento, Italy; ²Brescia, Italy,
³Verona, Italy)

18.50 THE NEGATIVE MOTOR NETWORK AND ITS
ASSESSMENT DURING AWAKE SURGERY
F. Rech¹, G. Herbet², S. Moritz-Gasser², H. Duffau²
(¹Nancy, France; ²Montpellier, France)

19.00 WARNING THRESHOLDS FOR MOTOR EVOKED
POTENTIAL MONITORING DURING SURGERY IN
BRAIN MOTOR AREAS: CORRELATION WITH
NEUROLOGICAL OUTCOME
C. Parisi, V. Tramontano, G. Pinna, A. Pasqualin,
M. Meglio, F. Sala (Verona, Italy)

19.10 5-AMINOLEVULINIC ACID-GUIDED SURGERY IN
PRIMARY AND RECURRENT MALIGNANT
GLIOMAS. ITS RELATIONSHIP WITH THE AREA
OF RESECTION AND APPEARANCE OF NEW
POSTOPERATIVE NEUROLOGICAL DEFICITS
M. Carvi y Nieves (Traunstein, Germany)

19.20 Adjourn

IX Session
OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING – 1st part

Moderators:

Stefano Magrini (Brescia, Italy)
Roberto Stefani (Brescia, Italy)

17' presentation + 3' discussion

08.30 NEUROCOGNITIVE FUNCTION AND QUALITY OF LIFE IN GLIOMA PATIENTS
Martin Klein (Amsterdam, Netherlands)

08.50 THE ROLE OF NEUROCOGNITIVE ASSESSMENT IN THE FOLLOW-UP OF GLIOMAS
Costanza Papagno (Milan, Italy)

09.10 SEIZURE IN LOW GRADE GLIOMAS: A BIOMARKER OF TREATMENT RESPONSE AND AN END-POINT FOR CLINICAL TRIALS
Roberta Rudà (Turin, Italy)

09.30 GLIOMAS SURGERY OR EPILEPSY SURGERY ?
Giorgio Lo Russo (Milan, Italy)

09.50 DIRECT BRAIN MAPPING, INTRAOPERATIVE SEIZURES AND ANTIEPILEPTIC DRUG PROPHYLAXIS: A SURVEY AMONG 16 NEUROSURGICAL EUROPEAN CENTERS
Giannantonio Spena (Brescia, Italy)

10.10 Coffee Break

X Session
OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING – 2nd part

Moderators:

Marco M. Fontanella (Brescia, Italy)
Domenico d'Avella (Padova, Italy)

10.40 **Key Lecture**
 OPTIMIZING OUTCOMES FOR PATIENTS WITH GLIOMAS: A PERSONAL JOURNEY
Mitchel S. Berger (San Francisco, USA)

17' presentation + 3' discussion

11.10 INCIDENTALLY DISCOVERED LGG: TIME FOR SCREENING?
Emmanuel Mandonnet (Paris, France)

11.30 RADIO-CHEMOTHERAPY OF GLIOMAS: DOSES AND THEIR CORRELATION WITH CLINICAL AND FUNCTIONAL OUTCOME
Michela Buglione di Monale (Brescia, Italy)

11.50 ROLE OF DIFFUSION TENSOR MAGNETIC RESONANCE TRACTOGRAPHY IN PREDICTING THE EXTENT OF RESECTION IN GLIOMA SURGERY
Antonella Castellano (Milan, Italy)

12.10 Discussion

XI Session
OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING – 3rd part

Moderators:

Carlo G. Giussani (Monza, Italy)
Pier Paolo Panciani (Brescia, Italy)
Erik Sganzerla (Monza, Italy)

7' presentation + 3' discussion

12.30
 13.40 **SELECTED ORAL COMMUNICATIONS**

12.30 COGNITIVE OUTCOME AFTER AWAKE SURGERY FOR LEFT AND RIGHT HEMISPHERE TUMOURS
E. De Witte¹, **D. Satoer**^{2,3}, **E. Visch-Brink**², **P. Mariën**^{1,4}
 (¹Brussels, Belgium; ²Rotterdam, Netherlands; ³Groningen, Netherlands; ⁴Anversa, Belgium)

Saturday, September 26th, 2015

12.40 THE SHORTENED DULIP PROTOCOL: A STANDARDIZED TOOL TO EVALUATE LANGUAGE PERFORMANCE BEFORE AND AFTER AWAKE GLIOMA SURGERY
D. Satoer^{1,2}, E. De Witte³, R. Bastiaanse², P. Mariën^{3,4}, E. Visch-Brink¹ (¹Rotterdam, Netherlands; ²Groningen, Netherlands; ³Brussels, Belgium; ⁴Anversa, Belgium)

12.50 COMPARISON OF DYNAMIC SUSCEPTIBILITY CONTRAST- ENHANCED MR AND DYNAMIC CONTRAST-ENHANCED MR IMAGING IN GLIOMA GRADING
 C. Santarosa, **A. Castellano**, G. Conte, A. Iadanza, M. Cadioli, A. Franzin, M.R. Terreni, A. Falini, N. Anzalone (Milan, Italy)

13.00 PHYSICAL EXERCISE TO IMPROVE COGNITIVE FUNCTIONING IN GLIOMA PATIENTS: A PILOT RCT
K. Gehring¹, M.M. Stuiver², G.J. Rutten¹, M.J.B. Taphoorn³, N.K. Aaronson², M.M. Sitskoorn¹ (¹Tilburg, Netherlands; ²Amsterdam, Netherlands; ³The Hague, Netherlands)

13.10 HOW TO EXPLAIN COGNITIVE PROBLEMS TO A BRAIN TUMOR (BT) PATIENT
M. Kallio (Helsinki, Finland)

13.20 FUNCTIONAL TRAJECTORIES AND SURVIVAL RATES IN PATIENTS REHABILITATED AFTER TREATMENT FOR GLIOMA
G. Cerina, L. Barulli, S. Ghirmai, C. Corsini, V. Colantonio, M. Pagani, B. Bernardini (Rozzano, Milan, Italy)

13.30 WHY GLIOMA PATIENTS SEIZE? ADDING GABA AND CHLORIDE TO THE GLUTAMATE HYPOTHESIS
J. Pallud (Paris, France; Groland, France)

13.40 Closing Remarks

13.50 End of the Meeting

POSTERS

P01 SEGREGATING SURPRISE AND HAPPINESS PROCESSING NETWORKS IN THE LEFT HEMISPHERE: A VOXEL LESION SYMPTOM MAPPING STUDY
G. Mattavelli¹, A. Pisoni¹, A. Casarotti², A. Comi², G. Sera¹, M. Riva², M. Rossi², A. Bizzi², L. Bello^{1,2}, C. Papagno¹ (¹Milan, Italy; ²Rozzano, Milan, Italy)

P02 NARRATIVE SPEECH SEVEN MONTHS AFTER AWAKE GLIOMA SURGERY
A. Rofes^{1,2,4}, B. Santini³, A. Talacchi³, G. Pinna³, L. Nickels⁴, R. Bastiaanse⁵, G. Miceli² (¹Trento, Italy; Macquarie, Australia; Potsdam, Germany; Groningen, Netherlands; Newcastle, UK; ²Trento, Italy; ³Verona, Italy; ⁴Sydney, Australia; ⁵Groningen, Netherlands)

P03 PERFUSION WEIGHTED IMAGING IN THE STUDY OF BRAIN GLIOMAS: REPRODUCIBILITY AND COMPARISON OF DATA OBTAINED BY USING TWO DIFFERENT SOFTWARE PLATFORMS
G.M. Conte, A. Iadanza, M. Cadioli, A. Castellano, M.R. Terreni, A. Franzin, G. Calori, A. Falini, N. Anzalone (Milan, Italy)

P04 THE RELATIONSHIP BETWEEN THE MAGNITUDE OF ACTIVITY IN THE LEFT AND RIGHT HEMISPHERE AND THE LANGUAGE LATERALIZATION INDEX AS DETERMINED WITH LANGUAGE fMRI
J.M. Jansma^{1,2}, N.F. Ramsey², G.J.M. Rutten¹ (¹Tilburg, Netherlands; ²Utrecht, Netherlands)

P05 HIGH RESOLUTION 3T fMRI: PROTOCOL OPTIMIZATION FOR PRESURGICAL APPLICATION, WITH SINGLE FINGER SOMATOTOPY WITHIN THE PRIMARY MOTOR AREA
P. Vitali, N. Anzalone, G. Germani, A. Faggioli, L. Casiraghi, G. Castellazzi, C. Wheeler-Kingshott (Pavia, Italy; Milan, Italy)

- P06** PROTOCOL STUDY BY FMRI AND DTI IN PATIENTS WITH LESIONS IN PREMOTOR REGION: WHEN, WHY AND HOW?
S. Castañer, À Camins, J. Sierpowska, S. Ruth Lau, A. Fernández, A. Gabarrós, M. Juncadella, A. Rodríguez, C. Majós, C. Aguilera (Barcelona, Spain)
- P07** THE INVOLVEMENT OF THE MIDDLE FRONTAL AREAS IN LANGUAGE SWITCHING: INTRAOPERATIVE ELECTRICAL STIMULATION EVIDENCE
J. Sierpowska, A. Gabarrós, A. Fernandez-Coello, A. Camins, S. Castañer, M. Juncadella, A. Rodríguez-Fornells (Barcelona, Spain)
- P08** LANGUAGE REORGANIZATION CAPACITY IN PATIENTS WITH GLIOMAS IN THE FRONTAL AND TEMPORAL LOBES OF THE LEFT HEMISPHERE
A. Chrabaszcz, S. Buklina, V. Tolkacheva, A. Poddubskaya, O. Dragoy (Moscow, Russia)
- P09** DEVELOPMENT OF READING AND WRITING ASSESSMENT IN AWAKE SURGERY
F.C. Van Ierschoot^{1,2}, A. Miozzo³, G. Spena³, M.M. Fontanella³, G. Miceli¹ (¹Trento, Italy; ²Groningen, Netherlands; ³Brescia, Italy)
- P10** WHITE MATTER CONNECTIONS BETWEEN SUPPLEMENTARY MOTOR AREA AND ANTERIOR TEMPORAL LOBE IN FACE RECOGNITION AND NAMING: A RETROSPECTIVE STUDY
G. Bertani, B. Zarino, M. Minichiello, M. Caroli, M. Locatelli, P. Rampini, G. Carrabba (Milan, Italy)
- P11** AWAKE SURGERY IN RECURRENT GLIOMAS
B. Zarino, G. Bertani, M. Caroli, M. Locatelli, P. Rampini, G. Carrabba (Milan, Italy)
- P12** MAPPING OF VISUO-SPATIAL ABILITIES BY USING NAVIGATED TRANSCRANIAL MAGNETIC STIMULATION: A FEASIBILITY STUDY IN HEALTHY SUBJECTS AND PATIENTS AFFECTED BY NON- DOMINANT PARIETAL TUMORS
A. Germanò, A. Conti, G. Raffa, A. Scibilia, C. Sindorio, M. Quattropiani, F. Tomasello (Messina, Italy)
- P13** THE ROLE OF PREOPERATIVE NEUROCOGNITIVE ASSESSMENT FOR CORTICAL COGNITIVE MAPPING: ONE SIZE DOESN T FIT ALL
C. Sindorio, M. Quattropiani, G. Raffa, A. Scibilia, A. Conti, A. Germanò (Messina, Italy)
- P14** NEUROPSYCHOLOGICAL ASSESSMENT IN LEFT FRONTAL GLIOMA PATIENT'S: THE ROLE OF EXECUTIVE FUNCTIONS AND MEMORY SKILLS FOR POSTOPERATIVE FUNCTIONAL OUTCOME AND HEALTH RELATED QUALITY OF LIFE
M. Quattropiani, C. Sindorio, G. Raffa, A. Scibilia, A. Conti, A. Germanò (Messina, Italy)
- P15** SURVIVAL IN THE TREATMENT OF HIGH-GRADE GLIOMAS WITH WAFERS OF CARMUSTINE: OUR EXPERIENCE ON 112 PATIENTS AND COMPARISON WITH META-ANALYSIS STUDY
L.A. Lattanzi, **V. Fanelli** (Taranto, Italy)
- P16** 5-ALA INTRAOPERATIVE FLUORESCENCE IN LOW-GRADE GLIOMA SURGERY: A RETROSPECTIVE STUDY OF 27 PATIENTS
S.A. Goryaynov, A.A. Potapov, M.F. Goldberg, L.V. Shishkina, M.V. Ryzhova, A. P. Chumakova, V.Y. Zhukov, V.A. Ohlopkov, T. Saveleva, M.D. Varuykhina (Moscow, Russia)
- P17** FLUORESCENCE GUIDED RESECTION OF GLIOBLASTOMA. CORRELATION BETWEEN THE FLUORESCENCE INTENSITY AND THE PROPORTION OF MALIGNANT CELLS IN THE TISSUE
T. Krcik, P. Buzrla (Ostrava, Czech Republic)
- P18** EFFECTS OF B-VALUE ON SPHERICAL DECONVOLUTION CHARACTERIZATION OF THE CORPUS CALLOSUM
C. Maffei¹, F. Dell'Acqua², J. Jovicich¹ (¹Trento, Italy; ²London, UK)

Scientific Information

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

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PC Projection (only POWER POINT file on CD or on a memory stick, USB port or DVD) will be provided. Speakers are kindly requested to contact the Slide Center, placed inside the Aula Magna, to upload their presentation(s), in order to test all the audiovisual material at least one hour before the lecture. The presentation will be forwarded through Local Area Network (LAN) directly to the Podium. The use of personal laptop (MAC/PC) is allowed but the speaker must check it with the technician.

Please, adhere strictly to the time allotted for each intervention.

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1 - FLOSEAL Istruzioni per l'uso

2 - Oz MC et al. Floseal matrix: new generation topical hemostatic sealant J Crad Surg. 2003; 18: 486-493

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