THE BRAIN AND GLIOMAS
WHEN THE CONNECTIONS ARE CRUCIAL

Aula Magna, Faculty of Medicine
University of Brescia
Sept. 24th-26th 2015

Presidents
Marco Maria Fontanella
Giannantonio Spena

Preliminary Program
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.
Auspices and Patronage

[Logos of various organizations]
Invited Faculty

Barcia Juan (Madrid, Spain)
Bello Lorenzo (Milan, Italy)
Berger Mitchel (San Francisco, USA)
Bergui Mauro (Turin, Italy)
Bizzi Alberto (Milan, Italy)
Bugliione Di Monale Michela (Brescia, Italy)
Caleo Matteo (Pisa, Italy)
Carapella Carmine (Rome, Italy)
Caroli Manuela (Milan, Italy)
Carrabba Giorgio (Milan, Italy)
Castellano Antonella (Milan, Italy)
Cirillo Sossio (Naples, Italy)
D’Avella Domenico (Padova, Italy)
Delitala Alberto (Rome, Italy)
Dell’Acqua Flavio (London, UK)
Destrieux Christophe (Tours, France)
DiMeco Francesco (Milan, Italy)
Ducati Alessandro (Turin, Italy)
Duffau Hugues (Montpellier, France)
Esposito Vincenzo (Pozzilli, IS, Italy)
Fontanella Marco Maria (Brescia, Italy)
Garbossa Diego (Turin, Italy)
Gasparotti Roberto (Brescia, Italy)
Germano’ Antonino (Messina, Italy)
Giussani Carlo (Monza, Italy)
Hartwigsen Gesa (Kiel, Germany)
Innocenti Giorgio (Stockholm, Sweden)
Klein Martin (Amsterdam, Netherland)
Lo Russo Giorgio (Milan, Italy)
Magrini Stefano (Brescia, Italy)
Mandonnet Emmanuel (Paris, France)
Martino Gonzales Juan (Santander, Spain)
Micieli Gabriele (Rovereto, TN, Italy)
Miniussi Carlo (Brescia, Italy)
Missale Maria Cristina (Brescia, Italy)
Padovani Alessandro (Brescia, Italy)
Panciani Pier Paolo (Brescia, Italy)
Papagno Costanza (Milan, Italy)
Picht Thomas (Berlin, Germany)
Ramsey Nick (Utrecht, Netherland)
Rothwell John (London, UK)
Rouiller Eric (Fribourg, Swiss)
Rudà Roberta (Turin, Italy)
Sala Francesco (Verona, Italy)
Sganzerla Erik (Monza, Italy)
Skrap Miran (Udine, Italy)
Spina Giannantonio (Brescia, Italy)
Stefini Roberto (Brescia, Italy)
Stummer Walter (Munster, Germany)
Tomasello Francesco (Messina, Italy)
Vercelli Alessandro (Turin, Italy)
Zona Gianluigi (Genova, Italy)
Thursday, September 24th, 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 25th, 2015

| 08.30 | **III Session**  
FUNCTIONAL NEUROIMAGING NON-INVASIVE BRAIN MAPPING TECHNIQUE - 1st part |
| 10.40 | **IV Session**  
FUNCTIONAL NEUROIMAGING NON-INVASIVE BRAIN MAPPING TECHNIQUE - 2nd part |
| 10.40 | Key Lecture John Rothwell (London, UK) |
| 10.40 | 10.10 - 10.40 Coffee Break |
| 12.10 | **V Session**  
FUNCTIONAL NEUROIMAGING NON-INVASIVE BRAIN MAPPING TECHNIQUE - 3rd part |
| 13.00 | 13.00 - 14.00 Buffet Lunch |
| 14.00 | **VI Session**  
FUNCTIONAL NEO-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 NEO-ONCOLOGICAL SURGERY - 2nd part |
| 16.20 | Key Lecture Mitchel S. Berger (San Francisco, USA) |
| 18.10 | **VIII Session**  
FUNCTIONAL NEO-ONCOLOGICAL SURGERY - 3rd part |
| 19.00 | Adjourn |

Saturday, September 26th, 2015

| 08.30 | **IX Session**  
OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING - 1st part |
| 10.40 | **X Session**  
OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING - 2nd part |
| 10.40 | Key Lecture Mitchel S. Berger (San Francisco, USA) |
| 12.30 | **XI Session**  
OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING - 3rd part |
| 13.30 | Closing Remarks |
| 13.40 | End of the Meeting |
Thursday, September 24th, 2015

14.00  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)

17’ 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  SELECTED ORAL COMMUNICATIONS

19.00  Adjourn
Welcome Aperitif
III Session
FUNCTIONAL NEUROIMAGING
NON-INVASIVE BRAIN MAPPING
TECHNIQUE – 1st part

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

17’ presentation + 3’ discussion

Can preoperative brain mapping help in predicting brain plasticity / individual post-surgical recovery potential?

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 (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
Nick 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 Stefini (Brescia, Italy)

7’ presentation + 3’ discussion

12.10 SELECTED ORAL COMMUNICATIONS

13.00 Buffet Lunch
## VI Session
**FUNCTIONAL NEURO-ONCOLOGICAL SURGERY** – 1st part

**Moderators:**
- **Carmine M. Carapella** (Rome, Italy)
- **Marco M. Fontanella** (Brescia, Italy)

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<tr>
<td>14.00</td>
<td>PREOPERATIVE AND INTRAOPERATIVE COGNITIVE ASSESSMENT IN GLIOMA PATIENTS</td>
<td>Gabriele Miceli</td>
<td>Rovereto, TN, Italy</td>
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<tr>
<td>14.20</td>
<td>SURVIVAL AND FUNCTIONS IN LOW GRADE GLIOMAS</td>
<td>Miran Skrap</td>
<td>Udine, Italy</td>
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<td>14.40</td>
<td>A NEW PHILOSOPHY IN SURGERY FOR DIFFUSE LOW-GRADE GLIOMAS: TOWARDS A PROPHYLACTIC AND FUNCTIONAL NEURO-ONCOLOGY</td>
<td>Hugues Duffau</td>
<td>Montpellier, France</td>
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<tr>
<td>15.00</td>
<td>TAILORING NEUROPHYSIOLOGICAL STRATEGIES IN GLIOMAS INVOLVING MOTOR PATHWAYS</td>
<td>Lorenzo Bello</td>
<td>Milan, Italy</td>
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<tr>
<td>15.20</td>
<td><strong>Key Lecture</strong></td>
<td><strong>Brain Plasticity and Surgical Resection of Gliomas</strong></td>
<td>Hugues Duffau</td>
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<tr>
<td>15.50</td>
<td>Coffee Break</td>
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## VII Session
**FUNCTIONAL NEURO-ONCOLOGICAL SURGERY** – 2nd part

**Moderators:**
- **Vincenzo Esposito** (Pozzilli, IS, Italy)
- **Giannantonio Spena** (Brescia, Italy)

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<tr>
<td>16.20</td>
<td><strong>Key Lecture</strong></td>
<td><strong>Functional Outcome After Language Mapping for Glioma Resection</strong></td>
<td>Mitchel S. Berger</td>
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<tr>
<td>16.50</td>
<td>5-ALA UPDATE</td>
<td>Walter Stummer</td>
<td>Münster, Germany</td>
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<td>17.10</td>
<td>INTRAOPERATIVE CONTRAST ENHANCED ULTRASOUND (CEUS) IN BRAIN TUMOR SURGERY</td>
<td>Francesco DiMeco</td>
<td>Milan, Italy</td>
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<tr>
<td>17.30</td>
<td>INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING FOR THE RESECTION OF BRAIN TUMORS IN PEDIATRIC PATIENTS</td>
<td>Francesco Sala</td>
<td>Verona, Italy</td>
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<tr>
<td>17.50</td>
<td>Discussion</td>
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## VIII Session
**FUNCTIONAL NEURO-ONCOLOGICAL SURGERY** – 3rd part

**Moderators:**
- **Manuela A. Caroli** (Milan, Italy)
- **Gianluigi Zona** (Genova, Italy)

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<tr>
<td>18.10</td>
<td>SELECTED ORAL COMMUNICATIONS</td>
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<tr>
<td>19.00</td>
<td>Adjourn</td>
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IX Session
OUTCOMES: QUALITY OF LIFE, SEIZURES, NEUROIMAGING – 1st part

Moderators:
Stefano Magrini (Brescia, Italy)
Francesco Tomasello (Messina, Italy)

17’ presentation + 3’ discussion

Redefining quality of life and treatment’s objectives

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

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 18 NEUROSURGICAL EUROPEAN CENTERS
Giannantonio Spena (Brescia, Italy)

10.10 Coffee Break

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

Moderators:
Sossio Cirillo (Naples, 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)

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 SELECTED ORAL COMMUNICATIONS

13.30 Closing Remarks

13.40 End of the Meeting

Saturday, September 26th, 2015
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.

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 30th, 2015.

Deadline for abstract submission: May 31st, 2015
Abstract submitted after the deadline might not be accepted.
All participants must register for the Meeting in order to be accepted as speakers' presenters, unless invited.

AUDIOVISUAL EQUIPMENT
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.

ATTENDANCE CERTIFICATE
At the end of the meeting an attendance certificate will be given to all registered participants.

CME Accreditation
CME Accreditation will be requested for the Italian participants only.

VARIATIONS
The Scientific and the Organizing Secretariats reserve the right to make whatever change to the program they deem necessary for scientific and/or technical reasons.
**REGISTRATION FEES** (VAT included)

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<tr>
<td>Regular</td>
<td>€ 150.00</td>
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<tr>
<td>EANS Members</td>
<td>€ 125.00</td>
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<td>Residents and Trainees</td>
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<tr>
<td>Accompanying person</td>
<td>€ 100.00</td>
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<td>Company Staff</td>
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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 only on the dedicated website [http://www.mymeetingsrl.com/site/index.php?idsite=130](http://www.mymeetingsrl.com/site/index.php?idsite=130)

**HOW TO REGISTER AND HOW TO PAY**

To subscribe to this Meeting is necessary to fill the Registration Form and send it together with payment to the Organizing Secretariat My Meeting (Fax +39 051/795270 - e-mail: info@mymeetingsrl.com).

The registration will be confirmed by e-mail with a voucher. No registration will be processed unless accompanied payment. A receipt of payment for the total amount will be issued directly by My Meeting Srl.

**Deadline for registration September 18th, 2015.** After this date you can enroll only at the Meeting Venue

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**FOR ITALIAN PARTICIPANT ONLY**

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In caso di richiesta di emissione fattura nei confronti di enti esenti IVA, quali ad esempio A.S.L. o Aziende Ospedaliere, il partecipante dovrà farne richiesta al momento dell’invio della scheda di iscrizione (barrando l’apposita casella e apponendo il timbro dell’ente) ed effettuare il pagamento contestualmente all’invio della scheda. Qualora l’A.S.L. o A.O. non riuscisse a fornire al partecipante copia dell’avvenuto pagamento da allegare alla scheda di iscrizione, quest’ultimo dovrà anticiparne la quota. Sarà comunque emessa fattura quietanza intestata secondo quanto riportato sulla scheda di iscrizione da parte del partecipante. Una volta emesse le fatture non potranno essere modificate. Per il pagamento chiediamo di attenersi scrupolosamente alle quote ESENTI IVA.
HOTEL ACCOMMODATION

On the occasion of the Meeting have been provided agreements for special rates with some hotels located near the Congress venue and the City centre.

Visit the dedicated website http://www.mymeetingsrl.com/site/index.php?idsite=130 to download the fact sheet of the hotels allotment.

To make your reservation, please contact the hotels directly referring to the My Meeting convention and "The Brain and Gliomas" congress. It is advisable to make reservations in advance and no later than September 7th, 2015. Reservations received after this date will be processed on the basis of the remaining availability.

INSURANCE

Registration fees do not include insurance of any kind. It is strongly recommended that any time your register for the Meeting and book your travel you take out an insurance policy of your choice. The Organizing Secretariat cannot take any responsibility for any Participant failing to arrange their own insurance. This insurance is to be purchased in your country of origin.

VISA

Some participants may need an entry VISA for Italy. Participants are requested to consult the Italian Embassy or Consulate in their home country or with their travel agency for specific details relating to visa requirements. It is the responsibility of the participant to obtain a visa if required. For more information see the web site of the Italian Ministry of Foreign Affairs: http://www.esteri.it/visti/index_eng.asp

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Your personal data, voluntarily provided on this occasion and collected by My Meeting Srl, shall be manually and electronically processed, for the following purposes: keeping files on your participation in Congresses, Conferences, Meetings and other Events organized by My Meeting Srl and in compliance with law provisions. Your personal data shall be communicated to suppliers and third parties involved or participating in the Event as well as to relevant public authorities, in compliance with low provisions. Provision of requested personal data for the purposes listed above is compulsory for your participation in the Event. Personal data are kept by My Meeting Srl – Via 1° Maggio 33/35 – 40064 Ozzano dell’Emilia (BO) – Italy. You shall be entitled to exercise all the rights provided for by Title II of Legislative Decree no. 196/2003. By signing the Registration Form of the Congress you declare that you read the information provided and give your consent to the processing and communication of your personal data for the purposes listed above.
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Update to 20/03/2015
WHEN THE CONNECTIONS ARE CRUCIAL

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