5th MAPPING COURSE BELLVITGE 2022

November 15th-18th 2022

University Hospital of Bellvitge
Feixa Llarga, s/n
L’Hospitalet de Llobregat,
Barcelona (Spain)

The scientific and educational content of this event has been endorsed by:

MORE INFO:
www.mappingbellvitge.com
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Head of Intraoperative Neurophysiology Unit
Neurology Department
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DR. GERARD PLANS
Brain Mapping Program
Neurosurgery Department
Hospital Universitari de Bellvitge

INVITED SPEAKERS:

DR. HUGUES DUFFAU
Professor and Chairman
Neurosurgery Department
Centre Hospitalier Universitaire de Montpellier, France

DR. EMMANUEL MANDONNET
Neurosurgery Department
Hospital Lariboisière, Paris, France

DR. JUAN MARTINO
Professor
Neurosurgery Department
Hospital Universitario Marqués de Valdecilla, Santander, Spain

DR. FRANCESCO SALA
Professor and Chair
Section of Neurosurgery,
Department of Neurosciences
Biomedicine and Movement Sciences
University Hospital Verona, Italy

SCIENTIFIC COMMITTEE:

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DRA. LAURA PARIENTE
Anesthesia Department
Hospital Universitari de Bellvitge

DRA. RICARD RAMOS
Human Anatomy and Embriology Department
Hospital Universitari de Bellvitge
Universitat de Barcelona

COLLABORATORS:

DRA. JOANNA SIERPOWSKA
Cognition and Brain Plasticity Unit & Neuroscience Institute
Dept. of Cognition, Development and Educational Psychology
Universidad de Barcelona, Barcelona, Spain
14:30 - 15:00 Delivery of documentation

15:00 - 15:30 Introduction: How to perform fiber dissection in cadaveric specimens
Dr. Juan Martino / Dr. Alejandro Fernández-Coello

15:30 - 16:00 Introduction: How to perform fiber tractography in the lab
Dra. Àngels Camins / Dr. Pablo Naval-Baudin / Dr. Aleix Rosselló

16:00 - 17:30 Group 1
HANDS-ON WHITE MATTER FIBER DISSECTION:
Each participant will have one hemisphere to dissect

Group 2
HANDS ON WHITE MATTER DTI TRACTOGRAPHY:
Motor pathway tractography

17:30 - 18:00 COFFEE

18:00 - 19:30 Group 1
HANDS ON WHITE MATTER DTI TRACTOGRAPHY:
Motor pathway tractography

Group 2
HANDS-ON WHITE MATTER FIBER DISSECTION:
Each participant will have one hemisphere to dissect
### Program

**WEDNESDAY | November 16th**

**Location:** Dissection room

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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| 09:00 – 09:30 | How to simulate a surgical approach to the main language pathways  
Dr. Juan Martino / Dr. Emmanuel Mandonnet / Dr. Alejandro Fernández-Coello |
| 09:30 – 11:00 | **Group 1**  
HANDS ON SESSION SPECIMEN  
Each participant will have one CUSA and one hemisphere to dissect  
**Group 2**  
HANDS ON SESSION DTI  
Language pathways tractography |
| 11:00 – 11:30 | **COFFEE** |
| 11:30 – 13:00 | **Group 1**  
HANDS ON SESSION DTI  
Language pathways tractography  
**Group 2**  
HANDS ON SESSION SPECIMEN  
Each participant will have one CUSA and one hemisphere to dissect |
| 13:00 – 14:30 | **LUNCH** |
| 14:30 – 15:00 | How to simulate a surgical approach to insular gliomas in the laboratory  
Dr. Emmanuel Mandonnet |
| 15:00 – 16:30 | **Group 1**  
HANDS ON SESSION SPECIMEN  
Each participant will have one CUSA and one hemisphere to dissect  
**Group 2**  
HANDS ON SESSION DTI  
Language pathways tractography |
| 16:30 – 17:00 | **COFFEE** |
| 17:00 – 18:30 | **Group 1**  
HANDS ON SESSION DTI  
Language pathways tractography  
**Group 2**  
HANDS ON SESSION SPECIMEN  
Each participant will have one CUSA and one hemisphere to dissect |

**MORE INFO:** [www.mappingbellvitge.com](http://www.mappingbellvitge.com)
THURSDAY | November 17th

08:15 – 08:45  Delivery of documentation
08:45 – 09:00  Welcome speech

09:00 – 09:20  Introduction: Evolution of Neurosurgery in eloquent brain areas
               Dr. Andreu Gabarrós
09:20 – 09:40  Neuroanatomy of the functional cortical brain areas
               Dr. Alejandro Fernández-Coello
09:40 – 10:00  Neuroanatomy of the functional subcortical brain areas
               Dr. Juan Martino
10:00 – 10:20  Functional magnetic resonance and tractography:
               Preoperative evaluation of brain function through neuroimaging
               Dra. Àngels Camins
10:20 – 10:30  Discussion

10:30 – 11:00  COFFEE

11:00 – 11:20  Intraoperative. Neuromonitoring
               Dra. Isabel Fernández-Conejero
11:20 – 11:40  Neuroanaesthesia management during eloquent brain surgery
               Dra. Laura Pariente
11:40 – 12:00  Neuropsychological intraoperative evaluation of language: Tradition & research
               Dra. Joanna Sierpowska
12:00 – 12:20  Mapping of cortical and subcortical functions in the awake patient
               Dr. Andreu Gabarrós / Dr. Alejandro Fernández-Coello
12:20 – 12:40  Mapping and neuromonitoring of motor function in the asleep patient
               Dr. Gerard Plans
12:40 – 13:00  Discussion

13:00 – 14:30  LUNCH

14:30 – 15:00  How I do it: Tips & tricks session with the experts
               Awake brain mapping
               Dr. Hugues Duffau
15:00 – 15:30  Asleep motor mapping and neuromonitoring (ONLINE)
               Dr. Francesco Sala
15:30 – 16:00  Discussion

16:00 – 16:30  COFFEE

16:30 – 16:50  Intraoperative identification of the SMA in the awake patient
               Dr. Andreu Gabarrós / Dr. Juan Martino
16:50 – 17:10  Mapping and neuromonitoring for extrinsic brain lesions
               Dr. Pablo López-Ojeda / Dr. José Luis Sanmillán / Dr. Andreu Gabarrós
17:10 – 17:30  Mapping and neuromonitoring for insular tumors
               Dr. Andreu Gabarrós / Dr. Alejandro Fernández-Coello
17:30 – 18:00  Discussion and closing remarks

DINNER (Only for the full course participants)
FRIDAY | November 18th

2 LIVE SURGERIES

> 08:30 – 15:00 Operating Room 1 – AWAKE PATIENT

Perisylvian tumor resection assisted by neuronavigation and cortical/subcortical language brain mapping in the awake patient

> 08:30 – 15:00 Operating Room 2 – ASLEEP PATIENT

Perirolandic tumor resection assisted by neuronavigation, intraoperative neuro monitoring and cortical/subcortical evoked motor brain mapping in the asleep patient

11:00 – 11:30 COFFEE / LUNCH DURING SESSION

> 15:00 Closing remarks and delivery of certificates
INFO

**VENUE**

The training program will be developed in:

**UNIVERSITY HOSPITAL BELLVITGE**
Feixa Llarga, s/n
L’Hospitalet de Llobregat
BARCELONA
(Spain)

**REGISTRATION**

The registration will be made through the website of the Technical Secretariat of FORMEDIKA:
www.formedika.com
Limited places! Registrations on first come first-served basis

**COURSE ACCREDITATION**

The 5th Mapping Course - Dissection and Theory and Live Surgeries has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®). In case the participant attended the full course, he/she would have two diplomas.

<table>
<thead>
<tr>
<th></th>
<th>Price 1</th>
<th>Price 2</th>
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<tbody>
<tr>
<td>Full course</td>
<td>1,950 €</td>
<td>1,755 € *</td>
</tr>
<tr>
<td>Theory and live surgeries (Thursday and Friday)</td>
<td>590 €</td>
<td>531 € *</td>
</tr>
<tr>
<td>Video streaming for theory and live surgeries</td>
<td>90 €</td>
<td>81 € *</td>
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* Members of the EANS will get a 10% discount on the prices

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**Note regarding Covid-19**

Formedika is continuously monitoring the situation related to COVID-19 in order to avoid the interruption of planned events. However, taking into account the current situation, Formedika cannot exclude the possibility that the scheduled courses or congresses are postponed, canceled or interrupted due to external causes. Formedika strives to duly notify the news that may be in this regard, but recommends that you ensure that the trips and accommodation you reserve are refundable, since it will not be responsible for the expenses incurred by the assistant in case of change, modification or cancellation.

![Image of medical professionals working on computers]