## PRESENTATION

In the last few years, Intraoperative Fluorescence has been extensively used both in Neuro-oncological and Vascular Neurosurgery. In particular, the application of fluorescent tracers for a better tumor visualization (5-ALA and more recently fluorescein) has significantly improved the extent of resection and consequently the prognosis of patients with malignant gliomas. In addition, it has been suggested that the use of fluorescein could be helpful during resection of other type of aggressive tumor of the central nervous system.
On the other hand, Intraoperative Videoangiography with Indocyanine Green (ICG) has been established as the best way to visualize and preserve blood vessels during aneurysm clipping and vascular malformation removal. Furthermore, it has been suggested a possible use of ICG videoangiography during brain tumor surgery in order to visualize blood supply to tumor and brain parenchima and in particular vein flow evaluation.
Fondazione Carlo Besta is one of the few centers in the world in which all possible application of intraoperative fluorescence has been experimented.

After the training, participants will be able to apply 5-ALA and fluorescein during resection of malignant gliomas and other CNS tumors. They will also learn application and technique of ICG videoangiography in vascular and oncological neurosurgery.

## GENERAL INFORMATION

### COURSE DIRECTORS

Dr. ***FRANCESCO ACERBI***
Neurosurgeon
2nd Neurosurgical Division of the Department of Neurosurgery
Fondazione IRCCS Istituto Neurologico "Carlo Besta"

Dr. ***FRANCESCO DIMECO***
Neurosurgeon
Director of the Department of Neurosurgery
Fondazione IRCCS Istituto Neurologico "Carlo Besta"

Dr. ***PAOLO FERROLI***
Neurosurgeon
Director of 2nd Neurosurgical Division of the Department of Neurosurgery
Fondazione IRCCS Istituto Neurologico "Carlo Besta"

### PARTICIPANTS:

- Neurosurgeons

**maximum 10 participants**

### LOCATION

Aula Pluribus (3rd floor)
Fondazione IRCCS Istituto Neurologico Carlo Besta
via G. Celoria 11 – Milano

### REGISTRATION

Registration is compulsory. Registration will be accepted in order of arrival and until all available seats. Please send your agreement by using the registration form by fax or by mail.

Sistema Socio Sanitario
Fondazione I.R.C.C.S. Istituto Neurologico Carlo Besta
Regione Lombardia

# *LIVE COURSE ON*

# *"INTRAOPERATIVE FLUORESCENCE USE DURING NEURO-ONCOLOGICAL AND NEURO-VASCULAR SURGERY"*

**May 07th – 09th, 2018**

**Fondazione IRCCS**
**Istituto Neurologico Carlo Besta**
**Via Giovanni Celoria n. 11 – Milano**

**With the support of:**

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## PROGRAM

### May 07th, 2018

2-2:30 pm Registration of the participants

2:30-6:30 pm ***Theoretical part of the Course***

- 2:30-2:45 pm Introduction to the course
- 2:45-3:15 pm Fluorescein-guided technique for HGG tumors resection
- 3:15-3:45 pm Fluorescein-guided technique for other types of tumors and vascular neurosurgery
- 3:45-4:15 pm 5-ALA guided technique for HGG resection
- 4:15-4:45 pm *Coffee Break*
- 4:45-5:15 pm ICG videoangiography in vascular surgery
- 5:15-5:45 pm ICG videoangiography in neuro-oncological surgery

7:30 pm *Dinner for Faculty and Participants*

### May 08th, 2018

8-9am Presentation of the live cases of the two days

9:30 am - 6 pm ***Live cases***

- *FLUORESCEIN-GUIDED RESECTION OF HGG*
- *FLUORESCEIN-GUIDED RESECTION OF CNS TUMORS*
- *5-ALA-GUIDED RESECTION OF HGG*

### May 09th, 2018

7:30-9:00 am Debriefing of live cases of the second day

9:30 am – 5 pm ***Live cases***

- *CLIPPING OF UNRUPTURED INTRACRANIAL ANEURYSMS WITH ICG VIDEOANGIOGRAPHY CONTROL*
- *CLIPPING OF DURAL FISTULA WITH ICG VIDEOANGIOGRAPHY*
- *UTILIZATION OF ICG-VIDEOANGIOGRAPHY FOR TUMOR REMOVAL*
- *FLUORESCEIN-GUIDED RESECTION OF CNS TUMORS*
- *5-ALA-GUIDED RESECTION OF HGG*

5-6 pm Debriefing of live cases of the third day

6-6:30 pm Certificates and closure of the course

## SPEAKERS

**ACERBI FRANCESCO**
Neurosurgeon
2nd Neurosurgical Division of the Department of Neurosurgery
Fondazione IRCCS Istituto Neurologico "Carlo Besta"

**BROGGI MORGAN**
Neurosurgeon
2nd Neurosurgical Division of the Department of Neurosurgery
Fondazione IRCCS Istituto Neurologico "Carlo Besta"

**DIMECO FRANCESCO**
Neurosurgeon
Director of the Department of Neurosurgery
Fondazione IRCCS Istituto Neurologico "Carlo Besta"

**FERROLI PAOLO**
Neurosurgeon
Director of 2nd Neurosurgical Division of the Department of Neurosurgery
Fondazione IRCCS Istituto Neurologico "Carlo Besta"

**The course will be in English**

**For further information or registration please contact:**

Ufficio Formazione, Aggiornamento e Didattica
Fondazione IRCCS Istituto Neurologico Carlo Besta
Via Celoria 11, Milano
Tel. +39 02 23942547 – Fax +39 02 23942465
E-mail: formazione@istituto-besta.it

## REGISTRATION FORM

***LIVE COURSE ON***

***"INTRAOPERATIVE FLUORESCENCE USE DURING NEURO-ONCOLOGICAL AND NEURO-VASCULAR SURGERY"***

NAME _____

SURNAME _____

PLACE OF BIRTH _____

DATE OF BIRTH _____

PROFESSION _____

ADDRESS _____

COUNTRY _____

TEL. _____

FAX _____

E-MAIL _____

WORK ADDRESS_____

COUNTRY_____

TEL. _____

FAX _____

DATE _____

SIGNATURE_____