



8<sup>th</sup> EDITION

# MEMORIAL CANTORE

April 4<sup>th</sup>-6<sup>th</sup>, 2024 - Pozzilli (IS) - Italy

IRCCS NEUROMED - NEUROANATOMY LAB "G. CANTORE"  
PARCO TECNOLOGICO - VIA DELL'ELETTRONICA - POZZILLI (IS) - ITALY

*Course Directors*

Vincenzo ESPOSITO  
Gualtiero INNOCENZI  
Sergio PAOLINI

*Course Organization*

Paolo di RUSSO  
Arianna FAVA  
Nicola GORGOGNONE

*Honoured Guests*

Antonio BERNARDO  
Sebastien FROELICH  
Claire KAREKEZI  
Samy YOUSSEF

**NEUROMED SKULL BASE  
HANDS-ON COURSE**

**3 DAYS of  
DISSECTION**

Info and registration: [cadaverlab@neuromed.it](mailto:cadaverlab@neuromed.it)

PATRONAGE

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SOCIETÀ ITALIANA  
NEUROCHIRURGIA



**The “Memorial Cantore” is now arrived at the 8<sup>th</sup> edition**

**The event, usually dedicated to young neurosurgeons, will be held at the new Anatomical Dissection Laboratory “G. Cantore”.**

**The course will include cadaver dissection activity to teach complex techniques for Skull Base Surgery to young neurosurgeons.**

**This activity, fundamental for the acquisition of scientific knowledge on the human body, practiced by Renaissance Genius such as Leonardo da Vinci and Andrea Vesalio, it is the base for the preparation and training of neurosurgeons and the study of new surgical techniques.**

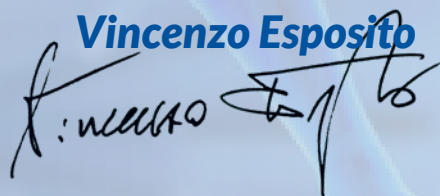
**The Faculty will include young colleagues, both Italian and foreign, with some exceptions for the welcome presence of internationally recognized experts.**

**Short introductory lectures and prolonged anatomical-surgical practice sessions are previewed.**

**We hope that the initiative, which continues to follow the path traced by our Master, will have a favourable reception and responds to the training needs of our Specialty.**

**Welcome to Neuromed!**

**Vincenzo Esposito**



**Memorial  
CANTORE**

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# HONOURED GUESTS

## **Antonio Bernardo, MD**



Antonio Bernardo is a highly distinguished, award winning neurosurgeon, who pioneered the use of 3D technology in neurosurgery. After finishing neurosurgical residency, Dr. Bernardo completed a fellowship in Skull Base Surgery at the Barrow Neurological Institute, under Dr. Robert Spetzler where developed a 3D surgical simulator to teach surgeons the visual-spatial skills required to perform skull base surgical approaches. Dr. Bernardo currently serves as neurosurgical consultant in many countries and he is an Associate Professor of Neurological Surgery and Director of the Surgical Innovations Laboratory for Skull Base Microneurosurgery in the Department of Neurological Surgery at Weill Cornell Medical College (New York City). He is recognized as an expert in the understanding of microsurgical anatomy and he has trained more than 4,000 neurosurgeons through his skull base surgery courses and more than 100 dedicated fellows since he has joined the Department of Neurological Surgery at Weill Cornell.

## **Sebastien Froelich, MD**



Sebastien Froelich is Professor and “Chef de Service” of Neurosurgical Department at Lariboisière University Hospital in Paris. Since 2010, he is director of the Skull Base Course in Strasbourg (IRCAD), where he spent his residency. Dr. Froelich’s area of expertise goes from complex skull base approaches (petrous region and CVJ) to extended endoscopic approaches for clival chordomas.

# INTERNATIONAL FACULTY

## Claire Karekezi, MD



Dr. Karekezi is a Neurosurgeon at the Rwanda Military Hospital in Kigali, Rwanda. Karekezi specializes in neuro oncology and skull-base surgery, is the acting chairperson of the African Women in Neurosurgery (AWIN).. After completing her residency in Morocco Karekezi completed a one-year clinical fellowship in neuro oncology and Skull Base Surgery at Toronto Western Hospital from 2017 to 2018 with Prof. F. Gentili.

As the first woman neurosurgeon in Rwanda, and one of eight neurosurgeons serving a population of 13 million, Karekezi serves as an advocate for women in neurosurgery. She has become an inspiration for young people pursuing neurosurgery, particularly young women.

## A. Samy Youssef, MD, PhD



Dr. Samy Youssef is a renowned skull base surgeon and one of the foremost educators in the specialty. He is Skull Base Surgery director in the Department of Neurosurgery at the University of Colorado School of Medicine.

One of the topics of particular interest in his career is combining open and endoscopic surgical approaches as a lesser invasive strategy in order to maximize cranial nerve functional preservation.

He recently published multimedia textbook, “Contemporary Skull Base Surgery: A Comprehensive Guide to Functional Preservation.”

## COURSE DIRECTORS

Vincenzo ESPOSITO (Pozzilli, IS)

Gualtiero INNOCENZI (Pozzilli, IS)

Sergio PAOLINI (Pozzilli, IS)

## COURSE ORGANIZATION

Paolo di RUSSO (Pozzilli, IS)

Arianna FAVA (Pozzilli, IS)

Nicola GORGOGNONE (Pozzilli, IS)

## LAB ENGINEERING

Roberta CORTELLESSA

Michela MIDEA

## SECRETARIAT AND MARKETING OFFICE

Domenica BERARDI

Antonio IANNARELLI

Giovanni POMPEO

Ilaria PUCCI

## ITALIAN FACULTY

Andrea CARDIA (Lugano)  
Christian COSSANDI (Novara)  
Domenico D'AVELLA (Padova)  
Raffaele DE CARO (Padova)  
Matteo DE NOTARIS (Salerno)  
Antonio FIORAVANTI (Cremona)  
Marco FONTANELLA (Brescia)  
Maurizio FORNARI (Milano)  
Renato J. GALZIO (Mar Adriatico)  
Lorenzo GIAMMATTEI (Lausanne)  
Sabino LUZZI (Pavia)  
Vincenzo MARTINO (Vallo della Lucania, SA)  
Luigi MAURO (Verona / Pozzilli IS)  
Antonio MEOLA (Trieste)  
Giuseppe MINNITI (Roma / Pozzilli, IS)  
Paolo PERRINI (Pisa)  
Francesco SALA (Verona)  
Serena TOLA (Firenze)  
Francesco TOMASELLO (Messina)  
Luigino TOSATTO (Cesena)  
Francesco ZENGA (Torino)

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## TUTORS

Andrea BOSCHI, MD

*Consultant Neurosurgeon, Ospedale Careggi, Firenze  
Former Skull Base Lab Fellow at WCMC in 2017*

Mattia DEL MAESTRO, MD, PhD

*Consultant Neurosurgeon, Ospedale Maggiore della Carità, Novara*

Davide DI CARLO, MD, PhD

*Consultant Neurosurgeon, University of Pisa  
Former Skull Base Lab Fellow in Lariboisiere Hospital in 2018-2019*

Alessandro PESARESI, MD

*Skull Base Lab Fellow, Neuroanatomy Lab, IRCCS Neuromed*

Giandomenico PETRELLA, MD

*Consultant Neurosurgeon, IRCCS Neuromed*



## PARTICIPANTS

Mohammed AL-SALIM (Iraq)  
Ahmed AL-TAMEEMI (Iraq)  
Raffaella BANCONE (Italy)  
Maddalena DARDO (Italy)  
Maria Luisa GORGOGLIONE (Italy)  
Kaunda IBEBUIKE (Nigeria)  
Maija LAHTINEN (Finland)  
Walter MARANI (Italy)  
Tara Hama SHARIF (Iraq)  
Luca SPERANZON (Italy)  
Angelica SUUTARI (Finland)

## OBSERVERS

Francesca DI CRISTIANZIANO (Italy)  
Samuel SARGSYAN (Armenia)  
Avin TAHER (Iraq)

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# NEUROMED SKULL BASE HANDS-ON COURSE

## MEMORIAL CANTORE 8<sup>th</sup> EDITION

3 DAYS OF DISSECTION, April 4<sup>th</sup>-6<sup>th</sup>

### Course Directors

Vincenzo ESPOSITO, *Pozzilli, Roma*

Gualtiero INNOCENZI, *Pozzilli*

Sergio PAOLINI, *Pozzilli*

### Course Organization

Paolo di RUSSO, *Pozzilli*

Arianna FAVA, *Pozzilli*

Nicola GORGOGNONE, *Pozzilli*

### Honoured Guests

Antonio BERNARDO, *New York, Cornell*

Sebastien FROELICH, *Paris Lariboisière*

Claire KAREKEZI, *Kigali Rwanda Military Hospital*

Samy YOUSSEF, *Denver University of Colorado*

### Italian Faculty

Andrea CARDIA, *Lugano*

Christian COSSANDI, *Novara*

Domenico D'AVELLA, *Padova*

Raffaele DE CARO, *Padova*

Matteo DE NOTARIS, *Salerno*

Antonio FIORAVANTI, *Cremona*

Marco FONTANELLA, *Brescia*

Maurizio FORNARI, *Milano*

Renato J. GALZIO, *Mare Adriatico*

Lorenzo GIAMMATTEI, *Lausanne*

Sabino LUZZI, *Pavia*

Vincenzo MARTINO, *Vallo della Lucania*

Luigi MAURO, *Verona, Pozzilli*

Antonio MEOLA, *Trieste*

Giuseppe MINNITI, *Roma, Pozzilli*

Paolo PERRINI, *Pisa*

Francesco SALA, *Verona*

Francesco SIGNORELLI, *Bari*

Serena TOLA, *Firenze*

Francesco TOMASELLO, *Messina*

Luigino TOSATTO, *Cesena*

Francesco ZENGA, *Torino*

### Tutors

Andrea BOSCHI, *Firenze*

Mattia DEL MAESTRO, *Novara*

Davide DI CARLO, *Pisa*

Alessandro PESARESI, *Torino, Pozzilli*

Giandomenico PETRELLA, *Pozzilli*

# NEUROMED SKULL BASE HANDS-ON COURSE

## Thursday, April 4<sup>th</sup>, 2024

|          |  |   |
|----------|--|---|
| 08.00 am | Registration   |   |
| 08.30 am | Introduction   | <i>Vincenzo Esposito, Maurizio Fornari</i>                    |
| 08.45 am | Welcome from EANS elected president  | <i>Francesco Sala</i>   |
| 09.00 am | Refinement of Skull Base Approaches Among Years                                | <i>Lorenzo Giammattei</i>                                     |
| 09.20 am | “Special Lecture”: Innovation and Training: IRCAD Africa                       | <i>Claire Karekezi</i>  |
| 09.40 am | ASINO Foundation for Neurosurgical Training                                    | <i>Andrea Cardia</i>  |
| 10.00 am | “Special Lecture” Application of Skull Base Approaches to Vascular Pathologies | <i>Antonio Bernardo</i>                                       |
| 10.30 am | Discussion and Questions   | <i>Matteo De Notaris, Francesco Tomasello</i>                 |
|          | <i>Coffee Break</i>  |   |
| 11.00 am | Overview on Neuroanatomy Lab Activity in Italy                                 | <i>Raffaele De Caro</i>                                       |
| 11.10 am | Skull Base Tumors Surgery: a balance between resection and function            | <i>Francesco Zenga</i>  |
| 11.30 am | radiosurgery as seen by Neurosurgeon   | <i>Antonio Meola</i>  |
| 11.50 am | Radiotherapy: what, when, how  | <i>Giuseppe Minniti</i>                                       |
| 12.10 pm | Discussion and Questions   | <i>Domenico D’Avella, Paolo Perrini, Francesco Signorelli</i> |
| 12.30 pm | <i>Lunch</i>   |   |
| 01.30 pm | Introduction to skull base laboratory  | <i>Paolo di Russo</i>   |
| 01.40 pm | Pterional Approach   | <i>Sabino Luzzi</i>   |
| 02.00 pm | Orbitozygomatic approach   | <i>Antonio Bernardo</i>                                       |
| 02.30 pm | <b>Laboratory: Orbitozygomatic Approach</b>                                    |   |
|          | Inter-fascial and retrograde dissection of temporalis muscle                   |   |
|          | Orbitozygomatic “2-pieces”   |   |
|          | <b>Main Station:</b> <i>A. Bernardo</i>  |   |
|          | <b>Tutors:</b> <i>Boschi, Del Maestro, Di Carlo, di Russo, Luzzi, Mauro</i>    |   |
| 06.00 pm | <i>Closure</i>   |   |
| 08.00 pm | <i>Social Dinner (Faculty)</i>   |   |

# NEUROMED SKULL BASE HANDS-ON COURSE

## Friday, April 5<sup>th</sup>, 2024

|          |  |   |
|----------|--|---|
| 08.00 am | Cavernous Sinus Anatomy                            | <i>Antonio Bernardo</i>                   |
| 08.40 am | Peeling of the Lateral Wall of the Cavernous Sinus | <i>Arianna Fava</i>                       |
| 09.00 am | Extradural Anterior Clinoidectomy                  | <i>Vincenzo Esposito</i>                  |
| 09.20 am | Discussion with                                    | <i>Marco Fontanella, Renato J. Galzio</i> |

*Coffee Break*

### 09.40 am **Laboratory: Extradural Anterior clinoidectomy and CS exploration**

Exposure and cutting of the Meningo-Orbital Band  
Exposure of Superior orbital fissure and V2  
Exposure and Drilling of Extradural Anterior Clinoidectomy  
Peeling of lateral wall of Cavernous Sinus  
Exploration of Cavernous Sinus Anatomy – Dural Opening

**Main Station:** *A. Bernardo*

**Tutors:** *Boschi, Del Maestro, Di Carlo, Fava, Giammattei, Pesaresi*

12.30 pm *Lunch*

|          |   |                           |
|----------|---|---------------------------|
| 01.30 pm | Petrous Bone Anatomy  | <i>Luigi Mauro</i>        |
| 01.50 pm | Anterior Petrosectomy   | <i>Sebastien Froelich</i> |
| 02.10 pm | The pretemporal transcavernous anterior petrosal approach to the petroclival region | <i>Samy Youssef</i>       |

*Coffee Break*

### 03.00 pm **Laboratory: Anterior petrosectomy**

Temporalis muscle dissection – Suprapetrosal-subtemporal Craniotomy  
Middle Fossa Peeling – Identification of Landmarks  
Exposure and Drilling of Rhomboid Fossa (“Kawase”)

**Main Station:** *S. Froelich*

**Tutors:** *Boschi, Del Maestro, Di Carlo, Fava, Giammattei, Mauro*

|          |   |  |
|----------|---|--|
| 06.00 pm | <i>Closure</i>                                |  |
| 08.30 pm | <i>Social Dinner (Faculty + Participants)</i> |  |

# NEUROMED SKULL BASE HANDS-ON COURSE

## Saturday, April 6<sup>th</sup>, 2024

09.00 am Mastoidectomy *Paolo di Russo*  
09.20 am Combined Petrosal Approach *Sebastien Froelich*

*Coffee Break*

10.00 am **Laboratory: Mastoidectomy**  
Outer Landmarks identification  
Sigmoid sinus and subtemporal dura – aditus ad antrum, lateral semicircular canal and incus  
Labyrinthine bloc and pre-sigmoid dura – jugular bulb – facial nerve and fallopian canal – Tentorial Cutting – Dural Opening  
**Main Station:** *S. Froelich*  
**Tutors:** *Boschi, Del Maestro, di Russo, Fava, Giammattei, Mauro/Pesaresi*

01.00 pm *Lunch*

02.00 pm Retrosigmoid approach *Nicola Gorgoglione*  
02.20 pm Far Lateral *Samy Youssef*  
02.40 pm Discussion with *Antonio Fioravanti, Luigino Tosatto*

03.00 pm **Laboratory: Retrosigmoid and Far Lateral**  
Dissection of post-lat neck muscles  
Retrosigmoid craniotomy – Far Lateral – Dural Opening  
**Main Station:** *S. Youssef*  
**Tutors:** *Boschi, Del Maestro, Fava, Gorgoglione, Mauro/Pesaresi, Petrella*

06.00 pm *Closure*



# NEUROMED SKULL BASE HANDS-ON COURSE



## REGISTRATION FEES\* PARTICIPANT

1.300 € + vat (22%) = 1.586 €  
hotel \*\*\*\* for 3 nights, social  
dinner, catering services,  
attendance certificate,  
insurance

## OBSERVER

500 € + vat (22%) = 610 €  
hotel \*\*\*\* for 3 nights, social  
dinner, catering services,  
attendance certificate,  
insurance

*\* The Neuromed Necroscopy Center is a no profit Laboratory. All the economic entries received are used for research and training activities related to the Laboratory.*

## COURSE REGISTRATION PARTICIPANT

To submit, send an email  
[cadaverlab@neuromed.it](mailto:cadaverlab@neuromed.it)  
with the following data:

- First name
- Surname
- Date and place of birth
- Address
- Phone
- Place and year of specialization
- VAT number and tax code

For foreign students, report if  
documentation for  
VISA required

## HOW TO REACH THE CONGRESS VENUE



**THE COURSE WILL BE HELD AT**  
Parco Tecnologico  
IRCCS Neuromed  
Via dell'Elettronica  
Pozzilli (IS) - Italy



### BY CAR

Take the Autostrada del Sole  
"A1" highway, turn off at the "San  
Vittore" or "Caianello". Follow the  
signs for "Venafro" after about 15  
km, continue for "Pozzilli" about  
5 km. Follow the signs for "Parco  
tecnologico IRCCS Neuromed".



### BY PLANE

The nearest international airports  
to the "Parco tecnologico IRCCS  
Neuromed" are: Capodichino  
(Naples) or Rome airports.  
The connections from these  
airports could be by train (Venafro  
station), bus or with a private  
shuttle service.

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[www.neuromed.it](http://www.neuromed.it)