



SKULL BASE 360°

2025

PROGRAMME

DATE

JUNE 16 - 20

COURSE DIRECTOR

S. Froelich (FR)

SKULL BASE COURSE 360°: THE FULL SPECTRUM MICRO / ENDO / RADIOSURGERY

COURSE DIRECTORS

Neurosurgeon

Sébastien FROELICH

Hôpital Lariboisière, Paris France

FACULTY

Bertrand BAUSSART

Hôpital Lariboisière, Paris France

Kevin BECCARIA

Hôpital Lariboisière, Paris France

Carolina BENJAMIN

University of Miami, Miami, USA

Linda BI

Brigham and Women's Hospital, Boston, USA

Idir DJENNAOUI

CHU de Hautepierre, Strasbourg, France

Florian EBNER

Alfried Krupp Hospital, Essen, Germany

Arianna FAVA

Hôpital Lariboisière, Paris France

Chang KI HONG

Asan Medical Center, Seoul, South Korea

James LIU

Skull Base Institute of NJ, New Jersey, USA

Francois NATAF

Hôpital Lariboisière, Paris France

Hun Ho PARK

Yonsei University, Seoul, South Korea

Nicolas REYNS

CHRU de Lille, Lille, France

Antonio SANTACROCE

Radiosurgery Center Munich, Germany

Matteo ZOLI

IRCCS Bellaria Hospital, Bologna, Italy

TRAINERS

Breno CAMARA

INEURO, Joao Pessoa, Brazil

Veronica DE LOS SANTOS

Hôpital Lariboisière, Paris France

Gabriel HEEMANN

Hôpital Lariboisière, Paris France

Ting Ting JIANG

Hôpital Lariboisière, Paris France

Nobuyuki WATANABE

Hôpital Lariboisière, Paris France

Each IRCAD faculty member confirms that any conflict of interest they may declare has no bearing on any scientific activity during the courses: all course content is fair, balanced, and free of commercial bias

COURSE ENDORSEMENT



This course is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS).

EACCME credits are also recognized by the American Medical Association towards the Physician's Recognition Award (PRA).



This course meets the guidelines established by the WFNS (World Federation of Neurosurgical Societies).



AMERICAN COLLEGE OF SURGEONS • DIVISION OF EDUCATION®
ACCREDITED EDUCATION INSTITUTES
 ENHANCING PATIENT SAFETY THROUGH SIMULATION
 ACCREDITED EDUCATION INSTITUTE

COURSE OBJECTIVES

4-DAY SKULL BASE SURGERY SESSION

- To provide an overview of the complex anatomy of the skull base
- To cover a broad spectrum of the skull base approaches and describe the technical steps of each specific approach
- To discuss indications of skull base approaches and surgical strategies
- To provide hands-on sessions on cadaveric specimens and improve skills
- To become more familiar with endoscopic endonasal approaches
- To understand the rationale and challenge of endoscopic endonasal approaches to the skull base
- To allow case discussions between experts and trainees

1-DAY RADIOTHERAPY SESSION

- To provide an overview of the newest radiation technologies for skull base lesions
- To provide radiation strategies for skull base lesions
- To provide indications of radiation
- To allow practical sessions on radiation therapy planning

SKULL BASE COURSE 360°: THE FULL SPECTRUM MICRO / ENDO / RADIOSURGERY

Monday, June 16th, 2025

MORNING

07.40 am Registration

07.55 am Welcome- Introduction

F. Nataf

THEORETICAL SESSION – RADIOSURGERY SESSION

08.00 am Radiation therapy in skull base surgery:

C. Benjamin

- Point of view of a skull base surgeon
- Potential and concerns

08.30 am Fundamentals of a radiosurgery procedure

F. Nataf

09.00 am Coffee break

09.15 am Radiosurgery for vestibular meningiomas

A. Santacrocce

09.40 am Radiosurgery for skull base schwannomas

N. Reyns

10.05 am Radiosurgery for pituitary adenomas

A. Santacrocce

10.30 am Coffee break

11.00 am Complications in radiosurgery

A. Santacrocce

11.50 am Introduction to the hands-on session

F. Nataf

Presentation of the treatment planning system

12.20 pm Lunch at the Institute

AFTERNOON

PRACTICAL SESSION ON TREATMENT PLANNING STATIONS:

02.00 pm Introduction :
 Physics & Technology overview
 Demonstration of the planning software
 Cases presentation:
 • Vestibular schwannomas
 • Trigeminal schwannomas
 • Pituitary tumor
 • Skull base meningioma
 Hands on – Dose planning
 Discussion

06.00 pm End of day session
 Evening free

SKULL BASE COURSE 360°: THE FULL SPECTRUM MICRO / ENDO / RADIOSURGERY

Tuesday, June 17th, 2025

MORNING

07.30 am Evaluation of the previous day

THEORETICAL SESSION

ANTEROLATERAL CORRIDOR: FTOZ, CLINOIDECTOMY, CAVERNOUS SINUS

07.40	FTOZ: Anatomy and techniques	<i>S. Froelich</i>
08.05 am	Extradural anterior clinoidectomy	<i>S. Froelich</i>
08.25 am	Peeling the lateral wall and cavernous sinus exposure	<i>C. Benjamin</i>
08.45 am	Treatment strategies for cavernous sinus meningiomas	<i>J. Liu</i>

09.15 am Coffee Break

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY:

09.30 am	<u>Steps of the dissection</u> Right side of the specimen <ol style="list-style-type: none">1. Interfacial dissection2. Retrograde dissection of the temporalis muscle3. Elevation of the periorbital4. Inferior orbital fissure exposure & MC Carthy keyhole5. One piece FTOZ craniotomy6. Pterion and sphenoid drilling7. Peeling of the lateral wall of the CS8. Extradural anterior clinoidectomy9. Exploration of the cavernous sinus10. Extradural anterior temporal fossa exposure
----------	--

01.00 pm Lunch at the Institute

AFTERNOON

LESSON FROM THE MASTER

01.45 pm Vestibular schwannomas *F. Ebner*

THEORETICAL SESSION SUBTEMPORAL CORRIDOR

02.15 pm Anterior petrosal approach *S. Froelich*

02.35 pm Surgical strategies for trigeminal schwannomas *CK. Hong*

03.00 pm Break

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY:

03.15 pm Steps of the dissection

Right side of the specimen

1. Temporal craniotomy (Posterior extension of the previous craniotomy)
 2. Peeling of the dura and exposure of Kawase triangle
 3. Anterior petrosectomy
 4. Extradural temporal fossa approach
 5. Opening of the dura
 6. Opening of Meckel's cave
 7. Exploration with the endoscope
-

07.00 pm End of day session

07.15 pm Cheese and Wine cocktail at IRCAD

SKULL BASE COURSE 360°: THE FULL SPECTRUM MICRO / ENDO / RADIOSURGERY

Wednesday, June 18th, 2025

MORNING

07.30 am Evaluation of the previous day

THEORETICAL SESSION

RETROSIGMOID, TRANSLABYRINTHINE, POSTERIOR PETROSAL APPROACHES

07.45 am Retrosigmoid approach *L. Bi*

08.05 am Translabyrinthine approach *I. Djennaoui*

08.25 am Posterior petrosal and combined approach *S. Froelich*

LESSON FROM THE MASTERS

08.45 am The mutational landscape of meningiomas and its influence on skull base surgery *L. Bi*

09.15 am Coffee Break

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

09.30 am Steps of the dissection

Right side of the specimen

1. Soft tissue dissection
2. L-shape craniotomy
3. Mastoidectomy
4. Opening the dura and section of the tentorium
5. Transposition of the sigmoid sinus
6. Drilling of the labyrinth

01.00 pm Lunch at the Institute

AFTERNOON

THEORETICAL SESSION POSTEROLATERAL CORRIDOR

01.45 pm Far lateral approach *A. Fava*

02.05 pm Anterolateral approach *HH. Park*

02.25 pm Opening the jugular foramen *J. Liu*

03.00 pm Coffee Break

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

03.30 pm Steps of the dissection

Left side of the specimen

1. Far lateral approach – midline hockey stick incision
2. Closure at the end of the dissection

Break and repositioning of the specimen

Right side of the specimen

3. Anterolateral approach
4. Opening the jugular foramen

07.00 pm End of day session

08.30 pm Dinner at the Restaurant “La Brasserie des Haras”,
23 Rue des Glacières in Strasbourg

SKULL BASE COURSE 360°: THE FULL SPECTRUM MICRO / ENDO / RADIOSURGERY

Thursday, June 19th, 2025

MORNING

07.30 am Evaluation of the previous day

THEORETICAL SESSION

KEYHOLE & TRANSORBITAL APPROACHES

07.45 am Subfrontal keyhole approach *S. Froelich*

08.05 am Transorbital approach: indications and techniques *HH. Park*

08.30am Eyebrow transorbital approach *A. Fava*

LESSON FROM THE MASTERS

08.50 am Transorbital : Pushing the limit *CK. Hong*

09.20 am Coffee Break

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

09.30 am Steps of the dissection
Left side of the specimen.

1. Eyebrow incision – Supraorbital approach
2. Eyelid incision – Transorbital approach

12.45 pm Lunch at the Institute

AFTERNOON

BERNARD GEORGE LECTURE

01.30 pm Pediatric skull base surgery K. Beccaria

THEORETICAL SESSION

ENDOSCOPIC ENDONASAL APPROACH: MIDLINE APPROACH: SELLA, TUBERCULUM & CLIVUS

02.00 pm Endoscopic endonasal approach for pituitary adenomas A. Baussart

02.20 pm Transtuberculum approach to craniopharyngiomas M. Zoli

02.40 pm Endoscopic endonasal approach to the clivus S. Froelich

Group picture in the auditorium

03.00 pm Break

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

03.15 pm Steps of the dissection
 Endoscopic exploration: endonasal anatomy

1. **Right side:** one nostril approach to sella
2. **Left side:**
 - middle turbinectomy
 - ethmoidectomy
 - antrostomy
 - Binostril approach to the planum and tuberculum
 - Binostril approach to the clivus

07.00 pm End of day session
 Evening free

SKULL BASE COURSE 360°: THE FULL SPECTRUM MICRO / ENDO / RADIOSURGERY

Friday, June 20th, 2025

MORNING

07.30 am Evaluation of the previous day

THEORETICAL SESSION

ENDOSCOPIC ENDONASAL APPROACH: PLANUM – TUBERCULUM, CLIVUS AND CCJ

07.45 am Endonasal steps for extended approach *I. Djennaoui*

08.05 am Endoscopic endonasal approach to the cavernous sinus *C. Benjamin*

08.25 am Combined strategies open endo for petroclival lesions *S. Froelich*

08.45 am Endoscopic endonasal approach to the petrous apex and jugular tubercle *S. Froelich*

09.05 am Coffee Break

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

09.15 am Steps of the dissection
Right side: Transpterygoid approach

1. Exposure of the cavernous sinus
2. Drilling of the petrous apex
3. Intracavernous ICA
4. Foramen lacerum

12.00 pm Lunch at the Institute

AFTERNOON

FRED GENTILI LECTURE

12.45 pm Challenges in endoscopic endonasal surgery *M Zoli*

THEORETICAL SESSION

ENDOSCOPIC ENDONASAL APPROACH (EEA): CLIVUS, CV JUNCTION & CLOSURE

01.15 pm Endoscopic endonasal approach to the craniocervical junction *J. Liu*

01.55 pm Closure techniques for EEA *CK. Hong*

02.15 pm Break

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

02.20 pm Steps of the dissection
Approach to the CCJ
Approach to the jugular foramen
Infratemporal fossa exploration

06.00 pm End of course
Delivery of certificates of attendance

SKULL BASE COURSE 360°: THE FULL SPECTRUM MICRO / ENDO / RADIOSURGERY

NOTE PAD

NOTE PAD

SKULL BASE COURSE 360°: THE FULL SPECTRUM MICRO / ENDO / RADIOSURGERY

NOTE PAD

[illegible]