

## SKULL BASE 360°: ENDO/MICRO/RADIOSURGERY SKULL BASE COURSE December 01-05, 2025



### Chairman

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Changhua, Taiwan

### President

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President, IRCAD  
University of Strasbourg,  
France

### Director

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Dean, IRCAD-Taiwan  
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### National Course Director

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### Objectives

- 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 session 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 discussion between expert in the field of skull base surgery and trainees

## Educational Methods

- Interactive theoretical and video sessions between faculty and course participants.
- Practical training on anatomical specimen.
- 3D screen

## International Faculties

Sebastien Froelich (France)  
 Christian Debry (France)  
 Kyu-Sung Lee (Korea)  
 Hun Ho Park (Korea)  
 Doo-Sik Kong (Korea)  
 Yong Hwy Kim (Korea)  
 Gaurav Tyagi (India)  
 John Adler (USA)  
 Duong Dai Ha (Vietnam)

Kenichi Oyama (Japan)  
 Kentaro Watanabe (Japan)  
 Shunya Hanakita (Japan)  
 Calvin Mak (Hong Kong)

## Domestic Faculties

杜永光 Yong-Kwang TU (雙和醫院)  
 楊大羽 Dar-Yu YANG (彰濱秀傳)  
 鄭均洹 Chun-Yuan CHENG (彰化秀傳)  
 辛明泰 Ming-Tai HSING(彰化秀傳)  
 沈炯祺 George Chiung-Chyi SHEN (臺中榮總)  
 楊孟寅 Meng-Yin YANG (臺中榮總)  
 唐健綸 Chien-Lun TANG (臺中榮總)  
 李旭東 Hsu-Tung LEE (臺中榮總)

張維傑 Wei-Chieh CHANG (彰濱秀傳)  
 鍾從得 Tseng-Te CHUNG (彰化秀傳)  
 許皓淳 Hao-Chun HSU (臺大雲林分院)  
 莊銘榮 Jimmy Ming-Jung CHUANG (高雄長庚)  
 楊韻如 Yun-Ju YANG (三軍總醫院)  
 湯其暉 Chi-Tun TANG (三軍總醫院)  
 楊懷哲 Huai-Che YANG (臺北榮總)



# Monday, December 1<sup>st</sup>, 2025

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## MORNING

07.30 am Registration

07.45 am Welcome introduction

Wayne Huang  
D. Y. Yang  
W.C. Chang  
S. Froelich

## THEORETICAL SESSION – ANTEROLATERAL CORRIDOR: FTOZ, CLINOIDECTOMY, CAVERNOUS SINUS

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07: 50 FTOZ approach and variations

*S. Froelich*

08:15 am Extradural anterior clinoidectomy

*G. Tyagi*

08:35 am Mobilizing the lateral wall of the cavernous sinus

*S. Hanakita*

08:55 am Surgical strategies for cavernous sinus meningiomas

*K.S. Lee*

09.20 am Break

## PRACTICAL SESSION IN EXPERIMENTAL LABORATORY:

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09.30 am Steps of the dissection:

**Right side of the specimen**

1. Interfacial dissection
2. Retrograde dissection of the temporalis muscle
3. Inferior orbital fissure exposure & MC Carthy keyhole
4. One piece FTOZ craniotomy
5. Peeling of the lateral wall of the CS
6. Extradural anterior clinoidectomy
7. Exploration of the cavernous sinus

01.00 pm Lunch at the Institute

## THEORETICAL SESSION – SUBTEMPORAL CORRIDOR

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01:45 pm Anterior petrosal approach *S. Froelich*

02.15 pm Extradural anterior temporal fossa approach *K. Watanabe*

02.35 pm Break

## PRACTICAL SESSION IN EXPERIMENTAL LABORATORY:

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03.00 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 Meckel's cave
7. Exploration with the endoscope

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06.45 pm End of day session  
Shuttle-bus from IRCAD to hotel

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# Tuesday, December 2<sup>nd</sup>, 2025

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## MORNING

07.45 am Evaluation of the previous day

## THEORETICAL SESSION – RETROSIGMOID, TRANSLABYRINTHINE, POSTERIOR PETROSAL APPROACHES

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08.00 am Retrosigmoid approach *D.D. Ha*

08.20 am Posterior petrosectomy mastoidectomy *K. Watanabe*

08.40 am Trans labyrinthine approach *K. Watanabe*

09.10 am Treatment strategies for petroclival meningiomas *S. Froelich*

09.35 am Break

## PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

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09.45 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

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01.45 pm	Far lateral approach	Y. K. TU
02.10 pm	Anterolateral approach	H.H. Park
02.35 pm	Approach to the jugular foramen	K.S. Lee

#### **Group picture in the auditorium**

03.00 pm Break

### PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

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03.15 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

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06:45 pm End of day session  
Shuttle-bus from IRCAD to hotel

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# Wednesday, December 3<sup>rd</sup>, 2025

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## MORNING

07.45 am Evaluation of the previous day

### THEORETICAL SESSION – KEYHOLE & TRANSORBITAL APPROACHES

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07.45 am Subfrontal eyebrow keyhole approach *S. Froelich*

08.05 am Minipterional approach *G. C. C. Shen*

08.40 am Transorbital approach *D. S. Kong*

09.20 am Break

### PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

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09.30 am Steps of the dissection:

**Left side of the specimen**

1. Minipterional approach
2. Eyelid incision – Transorbital approach

12.45 pm Lunch at the Institute

## AFTERNOON

### THEORETICAL SESSION – ENDOSCOPIC ENDONASAL APPROACH: MIDLINE APPROACH: SELLA, TUBERCULUM & CLIVUS

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02.00 pm Endoscopic endonasal approach for pituitary adenomas *C. Mak*

02.20 pm Transtuberculum approach for craniopharyngioma *Y.H. Kim*



02.40 pm Endoscopic endonasal approach for  
clival lesions

K. Oyama

03.00 pm Break

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## PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

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03.15 pm Steps of the dissection:

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

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07.00 pm End of day session  
Evening free

# Thursday, December 4<sup>th</sup>, 2025

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## MORNING

07.45 am Evaluation of the previous day

### **THEORETICAL SESSION – ENDOSCOPIC ENDONASAL APPROACH: PLANUM – TUBERCULUM, CLIVUS AND CCJ**

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07.45 am Transpterygoid approach *S. Froelich*

08.05 am Endoscopic endonasal approach to the cavernous sinus *D.S. Kong*

08.25 am Endoscopic endonasal approach to the petrous apex and meckel's cave *S. Froelich*

08.45 am Break

### **PRACTICAL SESSION IN EXPERIMENTAL LABORATORY**

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09.00 am Steps of the dissection:

1. Right side: Transpterygoid approach
2. Exposure of the cavernous sinus
3. Drilling of the petrous apex
4. Intracavernous ICA
5. Foramen lacerum

12.00 pm Lunch at the Institute

## AFTERNOON

### **THEORETICAL SESSION – ENDOSCOPIC ENDONASAL APPROACH: CLIVUS, CV JUNCTION & CLOSURE**

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01.15 pm	Endoscopic endonasal approach to the cranio-cervical junction	<i>H.H. Park</i>
01.35 pm	Endoscopic endonasal to the infratemporal fossa	<i>C. Mak</i>
01.55 pm	Closure techniques for EEA	<i>Y.H. Kim</i>

02.15 pm Break

### **PRACTICAL SESSION IN EXPERIMENTAL LABORATORY**

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02.20 pm	Steps of the dissection: <ol style="list-style-type: none"><li>1. Approach of the CCJ</li><li>2. Approach to the foramen jugular</li><li>3. Infratemporal fossa exploration</li></ol>
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06.00 pm	End of course Delivery of certificates of attendance
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# Friday, December 5<sup>th</sup>, 2025

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07.45 Evaluation of the previous day

## THEORETICAL SESSION – RADIOSURGERY SESSION

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08.00 am How radiosurgery changed Neurosurgery? *J. Adler*

08.30 am How radiosurgery changed skull base surgery? *S. Froelich*

08:50 A radiosurgery procedure: Step by step *H.C. Yang*

09.15 am Coffee break

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9.30 am Radiosurgery for vestibular schwannomas *C.F. Huang*

10.00 am Radiosurgery for skull Base meningiomas *F.J. Xiao*

10.30 am Radiosurgery for pituitary adenomas *G. Tyagi*

10.50 am Coffee break

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11.15 am Complications and Failures *H.C. Yang*

11.40 am Presentation of the treatment planning system *R. Cessac*

12.00 am The future of radiosurgery *J. Adler*

12:30 pm Lunch at the Institute

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## AFTERNOON

### **PRACTICAL SESSION ON TREATMENT PLANNING STATIONS:**

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- 01.15 pm Introduction: Rob Cessac  
Physics & Technology overview  
Demonstration of the Planning software  
Cases presentation:
- Vestibular schwannomas
  - Trigeminal schwannomas
  - Pituitary tumor
  - Skull base meningioma
- Hands on – Dose planning  
Discussion
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- 06.00 pm End of day session  
Shuttle-bus from IRCAD to hotel

MAP 地圖：

## 彰濱秀傳醫療園區地圖

### Map of Chang Bing Show Chwan Health Park

