

## SKULL BASE 360°: ENDO/MICRO SKULL BASE COURSE December 6-9, 2022



### Chairman

黃明和 **Min-Ho HUANG**  
Show Chwan Memorial Hospital  
Changhua, Taiwan



### President

**Jacques MARESCAUX**  
President, IRCAD  
University of Strasbourg, France

### Director

**Wayne HUANG**  
Dean, IRCAD-Taiwan  
Show Chwan Memorial Hospital,  
Changhua, Taiwan

### International Course Director

**Sebastien Froelich**  
Neurosurgeon,  
University of Paris,  
France

**Christian Debry**  
ENT,  
University of Strasbourg,  
France

### National Course Director

楊大羽  
**Dar-Yu YANG**  
Neurosurgeon,  
Show Chwan Memorial  
Hospital, Changhua,  
Taiwan

張維傑  
**Wei-Chieh CHANG**  
Neurosurgeon,  
Show Chwan Memorial  
Hospital, Changhua,  
Taiwan

### 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

### International Faculty

Sebastien Froelich (France)  
Christian Debry (France)  
Kyu-Sung Lee (Korea)  
Calvin Mak (Hong Kong)

Kenichi Oyama (Japan)  
Kentaro Watanabe (Japan)  
Shunya Hanakita (Japan)  
Hun Ho Park (Korea)

### Local Faculty

杜永光 Yong-Kwang TU (雙和醫院)  
楊大羽 Dar-Yu YANG (彰濱秀傳)  
沈炯祺 George Chiung-Chyi SHEN (台中榮總)  
顏玉樹 Yu-Shu YEN (台北榮總)  
鍾從得 Tseng-Te CHUNG (彰濱秀傳)  
鄭澄懋 Robert Cheng-Mao CHENG (台中榮總)  
湯其暉 Chi-Tun TANG (三軍總)  
楊順泰 Shun-Tai YANG (雙和醫院)

張維傑 Wei-Chieh CHANG (彰濱秀傳)  
黃博浩 Abel Po-Hao HUANG (台大醫院)  
楊士弘 Shih-Hung YANG (台大醫院)  
林志峰 Chih-Feng LIN (台大醫院)  
莊銘榮 Jimmy Ming-Jung CHUANG  
(高雄長庚)  
許皓淳 Hao-Chun HSU (台大雲林分院)



# Microscopic & Endoscopic Assisted

## Day 1 – Tuesday, December 6<sup>th</sup>, 2022

### MORNING

Shuttle-bus from the Hotel to IRCAD Taiwan

**07.15 AM**

Registration

**07.45 AM**

**Welcome to participants – introduction**

TBA

**08.00 AM**

**LECTURES SESSION: from FTOZ to Keyhole**

08.00-08.20

Orbito-zygomatic craniotomies

TBA

08.20-08.40

Keyhole principle, supraorbital and minipterinal

TBA

08.40-08.55

Clinoidectomy and additional drilling

TBA

08.55-09.10

Peeling the lateral wall and dealing with the CS

TBA

**09.10-09.30**

**Coffee Break**

**09.30 AM**

**PRACTICAL SESSION IN EXPERIMENTAL LABORATORY**

09.30-13.00

**Dissection on anatomical specimens:**

- Soft tissue dissection
- FTOZ approach
- Anterior clinoidectomy
- Peeling of the lateral wall
- Keyhole subfrontal and minipterinal

**13.00-13.40**

**Lunch**

### AFTERNOON

**13.40 PM**

**LECTURES SESSION: Subtemporal**

13.40-14.00

Petrous bone anatomy

TBA

14.00-14.20

Subtemporal approaches

TBA

14.20-15.00

Kawase approach

TBA

**15.00-15.15**

**Coffee Break**

**15.15 AM**

**PRACTICAL SESSION IN EXPERIMENTAL LABORATORY**

15.15-18.00

**Dissection on anatomical specimens:**

- Kawase approach

18.00 PM

End of the session

Shuttle-bus from IRCAD to hotel

# Microscopic & Endoscopic Assisted

## Day 2 - Wednesday, December 7<sup>th</sup>, 2022

### MORNING

Shuttle-bus from the Hotel to IRCAD Taiwan

#### 08.00 AM LECTURE SESSION: Posterior transpetrosal and combined

08.00-08.20	Retrosigmoid approach and endoscopic assisted	TBA
08.20-08.40	Posterior petrosal approach	TBA
08.40-09.00	Translabyrinthine approach	TBA
09.00-09.20	Combined petrosectomy	TBA

#### 09.20-09.30 Coffee Break

#### 09.30 AM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

##### 09.30-13.00 Dissection on anatomical specimens:

- Kawase approach
- Retrosigmoid approach
- Endoscopic assisted retrosigmoid
- Posterior petrosal approach
- Translabyrinthine
- Combined

#### 13.00-13.40 Lunch

### AFTERNOON

#### 13.40 PM LECTURE SESSION: Far lateral, transcondylar, jugular foramen

13.40-14.00	Anatomy of the craniocervical junction and VA	TBA
14.00-14.20	Far Lateral – transcondylar approach	TBA
14.20-14.40	Transmastoid approach to the jugular foramen	TBA
14.40-15.00	Anterolateral approach	TBA

#### 15.00-15.15 Coffee Break

#### 15.15 PM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

##### 15.15-18.00 Dissection on anatomical specimens:

- Far lateral approach
- Anterolateral approach
- Jugular foramen exposure

18.00 pm End of the session  
Shuttle-bus from IRCAD to hotel

# Endoscopic Endonasal

## Day 3 - Thursday, December 8<sup>th</sup>, 2022

### MORNING

Shuttle-bus from the Hotel to IRCAD Taiwan

#### 08.00 AM LECTURE SESSION: Ergonomics, sella, endonasal steps

08.00-08.20	How to get started: Instruments, ergonomics	TBA
08.20-08.40	Endoscopic anatomy of the nose and paranasal sinuses	TBA
08.40-09.00	Endoscopic approach to the sella for pituitary adenomas	TBA
09.00-09.20	Endonasal steps for extended approach	TBA
09.20-09.30	<b>Coffee Break</b>	

#### 09.30 AM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

##### 09.30-13.00 Dissection on anatomical specimens:

- Positioning, instrumentation, ergonomics
- One nostril approach to the sella
- Anterior and posterior ethmoidectomy
- Nasoseptal flap
- Transpterygoid approach

#### 13.00-13.40 Lunch

### AFTERNOON

#### 13.40 PM LECTURE SESSION: Transplanum, transcribriform, draf

13.40-14.00	Transplanum- transtuberculum approach	TBA
14.00-14.20	Transcribriform approach	TBA
14.20-14.40	Draf procedures	TBA
14.40-15.00	<b>Coffee Break</b>	

#### 15.00 PM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

##### 15.00-18.00 Dissection on anatomical specimens:

- Transplanum-transtuberculum approach
- Transcribriform
- Crita galli resection
- Draf

18.00 pm End of the session  
Shuttle-bus from IRCAD to hotel

# Anterior Corridor, Endoscopic Endonasal

## Day 4 - Friday, December 9<sup>th</sup>, 2022

### MORNING

Shuttle-bus from the Hotel to IRCAD Taiwan

#### 08.00 AM LECTURE SESSION: Cavernous sinus, petrous apex, clivus

08.00-08.20	Endoscopic anatomy: ICA, cavernous sinus and orbit	TBA
08.20-08.40	Approach to the cavernous sinus/meckel's cave	TBA
08.40-09.00	Approach to the clivus and petrous apex	TBA
09.00-09.20	<b>Coffee Break</b>	

#### 09.20 AM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

09.30-13.00	<b>Dissection on anatomical specimens:</b> <ul style="list-style-type: none"> <li>● Cavernous sinus exposure and dissection</li> <li>● Transclival approach</li> <li>● Approach to the petrous apex</li> </ul>	
13.00-13.40	<b>Lunch</b>	

### AFTERNOON

#### 13.40 PM LECTURE SESSION: Craniocervical junction, infratemporal fossa

13.40-14.00	Endoscopic nasopharyngectomy	TBA
14.00-14.20	Endoscopic approach to the infratemporal fossa	TBA
14.20-14.40	Endoscopic approach to the cranio-cervical junction	TBA
14.40-15.00	Reconstruction technique	
15.00-15.15	<b>Coffee Break</b>	

#### 15.15 PM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

15.15-18.00	<b>Dissection on anatomical specimens:</b> <ul style="list-style-type: none"> <li>● Transplanum-transtuberculum approach</li> <li>● Identification of the « palatini » muscle</li> <li>● Eustachian tube resection</li> <li>● Condyl and XII nerve exposure</li> <li>● Medial maxillectomy type 3</li> <li>● Identification of muscular plane-lateral and medial pterygoid muscles</li> <li>● Identification of lingual and inferior alveolar nerve on medial pterygoid muscle</li> <li>● Resection of lateral pterygoid muscle and identification of V3 and Eustachian tube</li> <li>● Identification of the parapharyngeal ICA</li> </ul>	
-------------	---	--

18.00 pm End of the session  
Shuttle-bus from IRCAD to Taichung HSR Station