

SKULL BASE 360°: ENDO/MICRO/RADIOSURGERY SKULL BASE COURSE December 11-15, 2023



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,
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Neurosurgeon,
University of Paris,
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Christian Debry

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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.
- 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)
 Gilles Koama (Burkinafaso)

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)
 楊懷哲 Huai-Che YANG (臺北榮總)

張維傑 Wei-Chieh CHANG (彰濱秀傳)
 鍾從得 Tseng-Te CHUNG (彰化秀傳)
 黃全福 Chuan-Fu HUANG (彰化秀傳)
 許皓淳 Hao-Chun HSU (臺大雲林分院)
 蕭輔仁 Fu-Jen XIAO (臺大醫院)
 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)



Monday, December 11th, 2023

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

07: 50	FTOZ approach and variations	<i>S. Froelich</i>
08:15 am	Extradural anterior clinoidectomy	<i>G. Tyagi</i>
08:35 am	Mobilizing the lateral wall of the cavernous sinus	<i>S. Hanakita</i>
08:55 am	Surgical strategies for cavernous sinus meningiomas	<i>K.S. Lee</i>
09.20 am	Break	

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY:

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

01:45 pm	Anterior petrosal approach	<i>S. Froelich</i>
02.15 pm	Extradural anterior temporal fossa approach	<i>K. Watanabe</i>
02.35 pm	Break	

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY:

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

Tuesday, December 12th, 2023

MORNING

07.45 am Evaluation of the previous day

THEORETICAL SESSION – RETROSIGMOID, TRANSLABYRINTHINE, POSTERIOR PETROSAL APPROACHES

08.00 am Retrosigmoid approach *D.D. Ha*

08.20 am Trans labyrinthine approach *S. Froelich*

08.40 am Posterior and combined petrosal approaches *K. Watanabe*

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

09.35 am Break

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

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

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

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

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

IRCAD-Taiwan

SKULL BASE
CONGRESS
DINNER
DECEMBER 12, TUE.
@ 19:00 PM

木生海鮮會館
MU SHENG SEAFOOD
彰化縣鹿港鎮自由路77號
NO. 77, ZIYOU RD., LUKANG TOWNSHIP,
CHANGHUA COUNTY

Wednesday, December 13th, 2023

07.45 Evaluation of the previous day

THEORETICAL SESSION – RADIOSURGERY SESSION

08.00 am	How radiosurgery changed Neurosurgery?	<i>J. Adler</i>
08.30 am	How radiosurgery changed skull base surgery?	<i>S. Froelich</i>
08:50	A radiosurgery procedure: Step by step	<i>H.C. Yang</i>

09.15 am Coffee break

9.30 am	Radiosurgery for vestibular schwannomas	<i>C.F. Huang</i>
10.00 am	Radiosurgery for skull Base meningiomas	<i>F.J. Xiao</i>
10.30 am	Radiosurgery for pituitary adenomas	<i>S. Froelich</i>

10.50 am Coffee break

11.15 am	Complications and Failures	<i>H.C. Yang</i>
11.40 am	Presentation of the treatment planning system	<i>R. Cessac</i>
12.00 am	The future of radiosurgery	<i>J. Adler</i>

12:30 pm Lunch at the Institute

AFTERNOON

PRACTICAL SESSION ON TREATMENT PLANNING STATIONS:

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

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

Thursday, December 14th, 2023

MORNING

07.45 am Evaluation of the previous day

THEORETICAL SESSION – KEYHOLE & TRANSORBITAL APPROACHES

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

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

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

PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

- 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

07.00 pm End of day session
Evening free

Friday, December 15th, 2023

MORNING

07.45 am Evaluation of the previous day

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

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

- 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

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

02.20 pm	Steps of the dissection: 1. Approach of the CCJ 2. Approach to the foramen jugular 3. Infratemporal fossa exploration
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06.00 pm	End of course Delivery of certificates of attendance
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MAP 地圖：

彰濱秀傳醫療園區地圖

Map of Chang Bing Show Chwan Health Park

