
June 16

Breakfast Seminar 2-1

7:30~8:30

Room A (Conference Room 1003)

Management of Challenging Aneurysm**Moderators:** Akio Morita (*Japan*)Yoko Kato (*Japan*)Saleem Abdulrauf (*USA*)

- BS2-1-1 Management strategy and treatment outcomes of unruptured intracranial aneurysms – implications from the UCAS japan cohort**
Akio Morita
Department of Neurosurgery, Nippon Medical School, Japan
- BS2-1-2 Treatment of clinoid portion of aneurysm**
Yoko Kato
Department of Neurosurgery, Fujita Health University Banbuntane Hotokukai Hospital, Japan
- BS2-1-3 Role of skull base approaches for giant aneurysms**
Eka J. Wahjoepramono
Department of Neurosurgery, Pelita Harapan University, Indonesia
- BS2-1-4 Risk assessment of vertebral artery vulnerability in congenital atlantoaxial dislocation**
Sanjay Behari
Department of Neurosurgery, Sanjay Gandhi Postgraduate Institute of Medical Sciences / Looknow, India
- BS2-1-5 Surgical frow oliversion for complex posterior circulation**
Ehab Shiban
Department of Neurosurgery, Technical University of Munich, Germany
- BS2-1-6 Giant aneurysms: Technical advances**
Saleem Abdulrauf
Department of Neurosurgery, Saint Louis University Center for Cerebrovascular and Skull Base Surgery, USA

Main Session 2-1

8:40~10:10

Room A (Conference Room 1003)

Endoscopic Skull Base Surgery: Current State of the Art, Indications & Limitations**Moderators:** Fred Gentili (*Canada*)Diego Mazzatenta (*Italy*)Paul A. Gardner (*USA*)

- MS2-1-1 Endoscopic skull base surgery: State of the art**
Fred Gentili
Department of Neurosurgery, University of Toronto, Canada
- MS2-1-2 Endoscopic skull base surgery**
Diego Mazzatenta
Institute of Neurological Sciences of Bologna, Italy
- MS2-1-3 Endoscopic endonasal approach for retrochiasmatic craniopharyngiomas: Technical pearls and limitations**
James K. Liu
Department of Neurosurgery, Rutgers New Jersey Medical School, USA
- MS2-1-4 Cavernous sinus endoscopic pituitary surgery for pituitary adenomas: is it still justified?**
Emmanuel Jouanneau
Skull Base and Pituitary Center, Neurosurgical Department B / Hospices Civils de Lyon / University of Lyon, France
- MS2-1-5 Meningiomas - chondrosarcomas - skull base techniques**
Sebastien Froelich
Department of Neurosurgery, Lariboisière Hospital, France

MS2-1-6 Endoscopic endonasal chordoma resection: The new standard of care

Paul A. Gardner

*Department of Neurosurgery, University of Pittsburgh Medical Center, USA***Plenary Session 2-1**

10:40~12:00

Room A (Conference Room 1003)

Skull Base Masters of Neurosurgery**Moderators:** Yong K. Tu (*Taiwan*)Anil Nanda (*USA*)**PS2-1-1 The cavernous sinus – The avalanche in the skull base surgery since 1986: Past, present and future perspectives**

Vinko V. Dolenc

*Department of Neurosurgery, University Clinical Centre Ljubljana, Slovenia***PS2-1-2 Skull base high flow bypass 130 case**

Takanori Fukushima

*Department of Neurosurgery, Duke University Medical Center, USA***PS2-1-3 Chinese skull base surgery: History and current situation**

Liwei Zhang

*Department of Neurosurgery, Beijing Tian Tan Hospital, China***PS2-1-4 Skull base surgery: Graduation from art to science**

Basant K. Misra

*Department of Neurosurgery, PD Hinduja National Hospital and Medical Research Centre, India***PS2-1-5 Surgical decision making in petroclival meningiomas**

Jacques Morcos

*Department of Neurosurgery, University of Miami, USA***Luncheon Satellite 2-1**

12:10~13:10

Room A (Conference Room 1003)

NSK Luncheon Satellite Session**Moderator:** Isao Date (*Japan*)**LS2-1-1 Complex Cranial Surgery: Back to the Future**

Samy Youssef

Departments of Neurosurgery and Otolaryngology / University of Colorado, USA

Sponsored by: NSK

Main Session 2-5

13:50~15:20

Room A (Conference Room 1002)

Skull base anastomosis: Neurosurgeon vs. Reconstructive surgeon**Moderators:** Yoko Kato (*Japan*)Rokuya Tanikawa (*Japan*)Satoshi Kuroda (*Japan*)**MS2-5-1 Supermicrosurgery for aesthetic craniofacial repairs****Keynote**

Isao Koshima

*Plastic and Reconstructive Surgery Department, The University of Tokyo, Japan***MS2-5-2 Surgical treatment of moyamoya disease**

Satoshi Kuroda

*Department of Neurosurgery, University of Toyama, Japan***MS2-5-3 Comprehension of surgical anatomy for high flow bypass**

Rokuya Tanikawa

Department of Neurosurgery, Sapporo Teishinkai Hospital, Japan

MS2-5-4 Our techniques of microsurgery in free flap reconstruction for skull base

Yuzuru Kamei

*Department of Plastic Surgery, Nagoya University Graduate School of Medicine, Japan***MS2-5-5 "Awake" highflow bypass for giant aneurysms**

Saleem I. Abdulrauf

*Department of Neurological Surgery, Saint Louis University Center for Cerebrovascular and Skull Base Surgery, USA***Concurrent Session 2-4**

15:50~17:20

Room A (Conference Room 1009)

Vestibular Schwannoma: Quality of Life Based on Outcome Analysis**Moderators:** Peter Siesjö (*Sweden*)Atsunobu Tsunoda (*Japan*)Marc S. Schwartz (*USA*)**CS2-4-1 Outcome after surgery of vestibular schwannomas- Morbidity, quality of life, complications or work capacity?**

Keynote

Peter Siesjö

*Lund University, Department of Neurosurgery, Sweden***CS2-4-2 Management trends of vestibular schwannoma in the United States**

Matthew L. Carlson

*Department of Otorhinolaryngology Mayo Clinic, USA***CS2-4-3 Loss of QOL after the skull base surgery**

Atsunobu Tsunoda

*Juntendo University School of Medicine, Department of Otolaryngology, Japan***CS2-4-4 The natural history of tumor growth and hearing in + 1000 observed patients with a vestibular schwannoma – An update from the world largest database in Copenhagen**

Keynote

Per Caye-Thomasen

*University of Copenhagen / Department of Otolaryngology – Head and Neck Surgery and Audiology, Copenhagen University Hospital Rigshospitalet, Denmark***CS2-4-5 Geographic distribution of vestibular schwannomas: A 15-year review**

Georgios Kontorinis

*Department of Otolaryngology, Queen Elizabeth University Hospital, UK***CS2-4-6 Postoperative tinnitus after vestibular schwannoma surgery: A neglected entity**

Jayesh Sardhara

*Department of Neurosurgery, Sanjay Gandhi Post Graduate Institute of Medical Science, India***CS2-4-7 Translabrynthine resection of small acoustic neuromas**

Marc S. Schwartz

*Neurosurgery, House Clinic, USA***Main Session 2-8**

17:20~18:30

Room A (Conference Room 1008)

Skull Base Concepts and Techniques: Lessons from the Experts**Moderators:** Basant Misra (*India*)Helmut Bertalanffy (*Germany*)**MS2-8-1 Anterior transpetrosal approach**

Takeshi Kawase

*Department of Neurosurgery, Keio University, Japan***MS2-8-2 Surgery of Jugular foramen tumors**

Yong-Kwang Tu

*Department of Neurosurgery, National Taiwan University, Taiwan***MS2-8-3 Skull base approaches to intrinsic brainstem lesions**

Helmut Bertalanffy

Department of Neurosurgery, International Neuroscience Institute, Germany

MS2-8-4 Interdisciplinary treatment of skull base lesions

William Couldwell

Department of Neurosurgery, University of Utah, USA

Jun. 16

Day 2

Room A

Breakfast Seminar 2-2

7:30~8:30

Room B (Conference Room 1009)

Vestibular Schwannoma : How to Operate?

Moderators: Marcus Atlas (*Australia*)
 Ki-Hong Chang (*Korea*)
 Roy T. Daniel (*Switzerland*)

- BS2-2-1 Four hand technique for surgery of vestibular schwannomas**
 Lars Poulsgaard
University Clinic of Neurosurgery, Denmark
- BS2-2-2 Acoustic neuroma - evolving management**
 Marcus Atlas
Ear Sciences Centre, University of Western Australia, Australia
- BS2-2-3 The transotic approach for vestibular schwannoma**
 Yin Xia
Department of Otorhinolaryngology, Beijing Tiantan Hospital, Capital Medical University, China
- BS2-2-4 Value of endoscope in achieving total removal of vestibular schwannoma**
 Mohamed M.K. Badr-El-Dine
University of Alexandria, Egypt / Professor of Otolaryngology; Faculty of Medicine. / President of the Egyptian Society of Skull Base Surgery / Member of the International Working Group of Ear Endoscopy, Egypt
- BS2-2-5 Clinical feasibilities of middle cranial fossa approach in the treatment of vestibular schwannoma in terms of surgical pitfalls or prognostic factors**
 Ki-Hong Chang
The Catholic University of Korea / St. Paul's Hospital / Department of Otolaryngology-HNS, Korea
- BS2-2-6 Facial/cochlear nerve preservation in surgery for large vestibular schwannomas**
 Roy T. Daniel
Department of Neurosurgery, University of Lausanne, Switzerland

Main Session 2-2

8:40~10:10

Room B (Conference Room 1009)

Vestibular Schwannoma: Development of Treatment Based on Experiences

Moderators: Michael J. Link (*USA*)
 Martin Sames (*Czech Republic*)
 Hao Wu (*China*)

- MS2-2-1 Does less than gross total resection of vestibular schwannoma result in improved outcomes?**
Keynote
 Michael J. Link
Department of Neurologic Surgery, Mayo Clinic, USA
- MS2-2-2 Favorable facial nerve function ; hearing preservation in vestibular schwannoma surgery**
 Shin Jung
Department of Neurosurgery, Chonnam National University Hwasun Hospital, Korea
- MS2-2-3 Surgery for small vestibular schwannomas**
 Amir R. Dehdashti
Department of Neurosurgery, Northshore University Hospital, USA
- MS2-2-4 Microsurgical management of vestibular schwannomas**
 Martin Sames
Department of Neurosurgery, University J.E.Purkinje, Masaryk Hospital, Czech Republic
- MS2-2-5 Our strategy and surgical experiences in management of vestibular schwannoma**
 Hao Wu
Ear Institut, Shanghai Jiaotong University School of Medicine / Department of Otolaryngology Head and Neck Surgery, Xinhua Hospital, Shanghai Jiaotong University School of Medicine, China
- MS2-2-6 Vestibular schwannoma: Personal experience, preferable treatment**
 Eduard Zverina
1st Faculty of Medicine, University Hospital Motol, Charles University Prague, Czech Republic / 3rd Faculty of Medicine, University Hospital Kralovske Vinohrady, Charles University Prague, Czech Republic

Plenary Session 2-2

10:40~12:00

Room B (Conference Room 1009)

Masters of ENT & Neck Surgery

Moderators: Shingo Murakami (*Japan*)
Giovanni Danesi (*Italy*)

- PS2-2-1 Lateral skull base approaches for skull base paragangliomas: Experience of over 400 cases**
Mario Sanna
Gruppo Otologico, Italy
- PS2-2-2 Endoscopic management of sinonasal malignancy: Oncologic outcomes**
Carl H. Snyderman
Department of Otolaryngology, University of Pittsburgh Medical Center / Department of Neurological Surgery, University of Pittsburgh Medical Center, USA
- PS2-2-3 Sinonasal cancers: Progress, challenges, and future directions**
Ehab Hanna
Department of Head and Neck Surgery, MD Anderson Cancer Center, USA
- PS2-2-4 Hearing rehabilitation with cochlear implant in patients with single side deafness after translabyrinthine resection of tumours of the inner ear canal**
Jörg Schipper
Department of Otorhinolaryngology, University Hospital Düsseldorf, Germany
- PS2-2-5 Surgical strategy for small acoustic neuroma having good hearing**
Shingo Murakami
Department of Otorhinolaryngology, Head and Neck Surgery, Nagoya City University, Japan

Luncheon Satellite 2-2

12:10~13:10

Room B (Conference Room 1009)

CSL Behring Luncheon Satellite Session
THIS IS THE Japanese Endoscopic Skull Base Surgery

Moderator: Kiyoshi Saito (*Japan*)

- LS2-2-1 Indication and Limitation of Endoscopic Endonasal Skull Base Surgery**
Hiroyoshi Akutsu
Department of Neurosurgery, Tsukuba University, Japan
- LS2-2-2 Endoscopic Keyhole Skull Base Surgery**
Tadashi Watanabe
Japanese Red Cross Nagoya Daini Hospital, Japan

Sponsored by: CSL Behring K.K.

Main Session 2-6

13:50~15:20

Room B (Conference Room 1003)

Anterior Skull Base: Utilisation of Appropriate Strategies and Approaches

Moderators: Stacey Gray (*USA*)
Takayuki Nakagawa (*Japan*)
Sung J. Cho (*Korea*)

- MS2-6-1 Anterior skull base closing by polyethylene implants**
Keynote
Claude F. Litre
Department of Neurosurgery, University Reims, France
- MS2-6-2 Multilayer resection of olfactory neuroblastoma using endoscopic endonasal approach**
Takayuki Nakagawa
Department of Otolaryngology, Kyoto University, Japan
- MS2-6-3 A randomized trial of lumbar drainage after endoscopic skull base surgery**
Paul A. Gardner
Department of Neurological Surgery, University of Pittsburgh Medical Center, USA

MS2-6-4 The supraorbital approach for anterior skull base, sallar and parasellar tumors

Sung J. Cho

*Department of Neurosurgery, Soonchanhyang University Seoul Hospital, Korea***MS2-6-5 Surgery of esthesioneuroblastoma**

Rungsak Siwanuwath

*Department of Neurosurgery, Chulalongkorn University, Thailand***MS2-6-6 Treatment outcome and strategy for olfactory neuroblastoma**

Hiroaki Motegi

*Hokkaido University Graduate School of Medicine, Department of Neurosurgery, Japan***Concurrent Session 2-5**

15:50~17:20

Room B (Conference Room 1008)

Pituitary Adenoma: Various Approaches & Management**Moderators:** Filippo F. Angileri (*Italy*)Oleksandr Voznyak (*Ukraine*)Sun Ho Kim (*Korea*)**CS2-5-1 Multidisciplinary management of aggressive pituitary adenomas****Keynote**

Filippo F. Angileri

*Department of Biomedical and Dental Sciences and Morphofunctional Imaging, University of Messina, Italy***CS2-5-2 Transcranial surgery of giant pituitary adenomas**

Oleksandr Voznyak

*Hospital "Feofaniya", Centre of Neurosurgery, Ukraine***CS2-5-3 Surgical treatment of giant pituitary adenoma**

Kenichi Ishibashi

*Department of Neurosurgery, Osaka City General Hospital, Japan***CS2-5-4 Snare technique for the remodeling of the arachnoid pouch to prevent cerebrospinal fluid rhinorrhea and hematoma collection during transsphenoidal surgery for suprasellar-extended pituitary tumors**

Sun Ho Kim

*Department of Neurosurgery, Yonsei University Health Systems, Korea***CS2-5-5 Endoscopic combined endonasal and transcranial approach for parasellar lesions**

Tadashi Watanabe

*Nagoya Daini Red Cross Hospital, Japan***CS2-5-6 Up-to-date MRI findings for the diagnosis of pituitary adenomas**

Masamichi Kurosaki

*Faculty of Medicine Tottori University, Japan***CS2-5-7 Transsphenoidal endoscopic surgery of pituitary adenomas (experience 4,200 operations)**

Vladimir Cherebillo

*Department of Neurosurgery, Military Medical Academy, Russia***Panel Discussion 2-2**

17:20~18:30

Room B (Conference Room 1009)

Endoscopic Approaches to the Lateral Skull Base**Moderators:** Mohamed M.K. Badr-El-Dine (*Egypt*)Seiji Kakehata (*Japan*)**PD2-2-1 Endoscopic transcranial corridors to the lateral skull base**

Daniele Marchioni

*Otolaryngology Department, University Hospital of Verona, Italy***PD2-2-2 Exclusive endoscopic approach to the acoustic neuroma**

Livio Presutti

Otolaryngology Department, University Hospital of Modena, Italy

PD2-2-3 Totally endoscopic transcanal infracochlear approach to a petrous apex cholesterol granuloma

Seiji Kakehata

Yamagata University Faculty of Medicine Department of Otolaryngology H&N, Japan

PD2-2-4 Superaquatic approach to the petrous apex

Nirmal Patel

Otology/ Neurotology/ Skull Base Surgeon Director, Kolling Deafness Research Centre, Macquarie University, Australia

PD2-2-5 Exclusively endoscopic resection of vestibular schwannoma and other CPA lesions

Robert Behr

Department of Neurosurgery, Academic Hospital of the University of Marburg, Germany

Evening Satellite 2

18:30~19:15

Room B (Conference Room 1009)

Baxter Evening Satellite Session

Moderator: Isao Date (*Japan*)

ES2-1 Recent trends Hemostasis in Skull Base Surgery (in Euro)

Francesco Tomasello

Department of Biomedical and Dental Sciences and Morphofunctional Imaging, University of Messina, Italy

ES2-2 Recent trends Hemostasis in Skull Base Surgery (in Japan)

Masahiro Toda

Department of Neurosurgery, Keio University School of Medicine, Japan

Sponsored by: Baxter Limited

Breakfast Seminar 2-3

7:30~8:30

Room C (Conference Room 1008)

Ultimate Management of Orbital and Frontal Sinus Tumors

Moderators: Takahiro Asakage (*Japan*)
 Yoshihiro Natori (*Japan*)
 Stefan Florian (*Romania*)

- BS2-3-1 Surgery in and around the orbit**
 Christian Matula
Neurosurgical Department, Medical University of Vienna, Austria
- BS2-3-2 Surgical indication and localization of the intraorbital tumor**
 Yoshihiro Natori
Department of Neurosurgery, Aso Iizuka Hospital
- BS2-3-3 The endoscopic endonasal approach for orbital and orbital apex lesions**
 Paul A. Gardner
Department of Neurological Surgery / University of Pittsburgh Medical Center, USA
- BS2-3-4 Endoscopic sinus surgery of frontal sinus disease**
 Shinichi Haruna
Department of Otorhinolaryngology Dokkyo Medical University, Japan
- BS2-3-5 Surgical treatment of frontal sinus carcinoma**
 Takahiro Asakage
Department of Otolaryngology Tokyo Medical and Dental University, Japan

Main Session 2-3

8:40~10:10

Room C (Conference Room 1008)

Management of Skull Base Malignancies: Know It All

Moderators: Franco De Monte (*USA*)
 Derrick T. Lin (*USA*)
 Takashi Sugawara (*Japan*)

- MS2-3-1 Multimodal management outcome of malignancies of the skull base**
Keynote Franco De Monte
Department of Neurosurgery, M.D. Anderson Cancer Center, USA
- MS2-3-2 Quality of life of patients undergoing skull base operations**
 Dan M. Fliss
Department of Otolaryngology, Head and Neck Surgery and Maxillofacial Surgery, Tel Aviv Sourasky Medical Center, Israel
- MS2-3-3 Management of temporal bone cancer**
 Jong W. Chung
Department of Otorhinolaryngology-Head & Neck Surgery, University of Ulsan College of Medicine, Asan Medical Center, Korea
- MS2-3-4 Extended orbital exenteration for sinonasal malignancy w/ orbital apex extension**
 Takashi Sugawara
Department of Neurosurgery, Tokyo Medical and Dental University, Japan
- MS2-3-5 New insights into perineural spread of cancer**
 Benedict J. Panizza
Department of Otolaryngology – Head and Neck Surgery, University of Queensland / Princess Alexandra Hospital, Australia
- MS2-3-6 Apparent diffusion coefficient and diffusion-weighted MR imaging are useful for the diagnosis of head and neck malignancies with skull base invasion**
 Takenori Ogawa
Department of Otolaryngology, Head and Neck Surgery, Tohoku University Graduate School of Medicine, Japan

Main Session 2-7

13:50~15:20

Room C (Conference Room 1009)

Priority of Simulation in The Education of Skull Base Surgery

Moderators: Christian Matula (*Austria*)
 Ian J. Witterick (*Canada*)
 Hirofumi Nakatomi (*Japan*)

- MS2-7-1 Education and training in skull base surgery -AO neuro delivering oppotunities**
Keynote Christian Matula
Neurosurgical Department, Medical University of Vienna, Austria
- MS2-7-2 Educating future skull base surgeons: Simulation and competency**
 Ian J. Witterick
University of Toronto, Department of Otolaryngology-Head & Neck Surgery, Canada
- MS2-7-3 Surgical simulation of brainstem lesions with 3D-fusion images**
 Hirofumi Nakatomi
Department of Neurosurgery, University of Tokyo Hospital, Japan
- MS2-7-4 Simulation based skills training in skull base surgery**
 Ashish Suri
Department of Neurosurgery, All India Institute of Medical Sciences, India
- MS2-7-5 Preoperative simulation for skull base approach - Usefulness and limitation -**
 Fusao Ikawa
Department of Neurosurgery, Graduate School of Biomedical and Health Sciences, Hiroshima University, Japan
- MS2-7-6 Image-guided deep seated glioma surgery**
 Kazuya Motomura
Department of Neurosurgery, Nagoya University Graduate School of Medicine, Japan

Concurrent Session 2-6

15:50~17:20

Room C (Conference Room 1008)

Petroclival / Posterior Fossa Tumors: Innovative Surgical Strategy

Moderators: Vivian A. Elwell (*UK*)
 Yoshinobu Seo (*Japan*)
 Louis A. B. Borba (*Brazil*)

- CS2-6-1 A Transcavernous anterior petrosectomy: An anterolateral perspective of the midclival area**
Keynote Alexander I. Evins
Department of Neurological Surgery, Weill Cornell Medical College, USA
- CS2-6-2 The microsurgical treatment of intracranial tumors in the midline skull base**
 Yugang Jiang
Department of Neurosurgery, Second Xiangya Hospital of Central South University, China
- CS2-6-3 Safe strategy of transpetrosal approach for tumors around the petrous apex**
 Yoshinobu Seo
Department of Neurosurgery, Nakamura Memorial Hospital, Japan
- CS2-6-4 Management of the petrosal apex cholesteatoma: Nagoya city university experience**
 Akira Inagaki
Department of Otolaryngology-Head and Neck Surgery, Nagoya City University, Graduate School of Medical Sciences, Japan
- CS2-6-5 Surgical treatment of epidermoid cysts presenting with trigeminal neuralgia**
 Yoshinori Higuchi
Department of Neurological Surgery, Chiba University Graduate School of Medicine, Japan
- CS2-6-6 Role of vertebral artery occlusion in the management of cervical spine tumours**
 Vivian A. Elwell
Department of Neurosurgery, The National Hospital for Neurology and Neurosurgery, UK

CS2-6-7 Use of actuator-driven pulsed water jet in meningioma surgery

Toshiki Endo

*Department of Neurosurgery, Kohnan Hospital, Japan***Proffered Paper 2-3**

17:20~18:30

Room C (Conference Room 1008)

Surgery of Middle Skull Base and Posterior Fossa Lesions: Applying the Optimum Approach**Moderators:** Keki Turel (*India*)Apio Antunes (*Brazil*)Agung Budi Sutiono (*Indonesia*)**PP2-3-1 Application of transpetrosal approach in combined simultaneous surgery**

Kenichiro Iwami

*Department of Neurosurgery, Fukushima Medical University, Japan / Aichi Medical University, Japan***PP2-3-2 Intradural anterior transpetrosal approach for petroclival lesions**

Shinya Ichimura

*Department of Neurosurgery, Charité-Universitätsmedizin, Germany / Department of Neurosurgery, Shizuoka City Shimizu Hospital, Japan***PP2-3-3 Navigation-guided drilling technique for the skull base surgery in the middle and posterior fossae**

Toshihiro Ogiwara

*Department of Neurosurgery, Shinshu University School of Medicine, Japan***PP2-3-4 Withdrawn****PP2-3-5 Three subtypes of trigeminal schwannoma in relation with meninges pattern**

Agung B. Sutiono

*Neurosurgery, Padjadjaran University / Hasan Sadikin Hospital, Indonesia***PP2-3-6 Treatment decision-making for petrous apex and petroclival meningiomas**

Tetsuro Sameshima

*Department of Neurosurgery, University of Hamamatsu, Japan***PP2-3-7 Reoperation for posterior fossa lesion**

Takao Yasuhara

Department of Neurological Surgery, Okayama University Graduate School of Medicine, Japan

Breakfast Seminar 2-4

7:30~8:30

Room D (Conference Room 1001)

Surgery of Pituitary Adenomas and Complication Avoidance**Moderators:** Imaduddin N. Kanaan (*Saudi Arabia*)Mohammed E. El-Fiki (*Egypt*)Maryam Jalessi (*Iran*)

- BS2-4-1 Challenges in management of Cushing disease**
Imad N. Kanaan
Department of Neurosciences, King Faisal Specialist Hospital and Research Centre, Saudi Arabia
- BS2-4-2 Results of endoscopic resection of acromegaly due to pituitary adenoma**
Mohammed E. El-Fiki
Department of Neurosurgery University of Alexandria, Egypt
- BS2-4-3 Surgical management of pituitary adenoma : Results in 108 patients treated in a single neurosurgery unit**
Ganesh Krishnamurthy
Department of Neurosurgery, Sri Ramachandra University, India
- BS2-4-4 Usefulness of endoscopic assisted microsurgery for skull base tumors**
Hiroyuki Kinouchi
Department of Neurosurgery, University of Yamanashi, Japan
- BS2-4-5 Management of nasal mucosa and olfactory function in an endoscopic skull base surgery**
Masayoshi Kobayashi
Department of Otorhinolaryngology-Head and Neck Surgery Mie University Graduate School of Medicine, Japan
- BS2-4-6 Can we predict visual impairment based on the size of pituitary tumor?**
Maryam Jalessi
Skull Base Research Center, ENT-Head & Neck Surgery Research Center and Department, Hazrat Rasoul Akram Hospital, Iran University of Medical Sciences, Iran

Concurrent Session 2-1

8:40~10:10

Room D (Conference Room 1001)

Update on Cavernous Sinus Surgery**Moderators:** Vinko V. Dolenc (*Slovenia*)Christianto B. Lumenta (*Germany*)Ya-zhuo Zhang (*China*)

- CS2-1-1 Surgery on cavernous sinus lesions**
Keynote
Atul Goel
Department of Neurosurgery, K. E. M. Hospital and Seth G.S. Medical College, India
- CS2-1-2 Surgery of the cavernous sinus tumors**
Kyu-Sung Lee
Gangnam Severance Hospital, Yonsei University Health System, Department of Neurosurgery, Korea
- CS2-1-3 Surgery for cavernous sinus lesions**
Ashish Suri
Department of Neurosurgery, All India Institute of Medical Sciences, India
- CS2-1-4 Endoscopic endonasal transsphenoidal approach for pituitary adenomas invading the cavernous sinus**
Savas Ceylan
Department of Neurosurgery, University of Kocaeli, Turkey
- CS2-1-5 Endoscopic treatment of invasive pituitary adenomas in cavernous sinus**
Ya-zhuo Zhang
Department of Neurosurgery, Beijing Neurosurgical Institute, China
- CS2-1-6 Review of cavernous sinus surgeries in the past five years**
Ying Mao
Department of Neurosurgery, Huashan Hospital, Fudan University, China

Luncheon Satellite 2-3

12:10~13:10

Room D (Conference Room 1001)

TOKIBO Luncheon Satellite Session**“The use of Quantum Molecular Resonance Bipolar in the management of skull base and posterior fossa tumors”****Petro-occipito-Trans-Sigmoid Approaches for parapharyngeal tumors with intradural extension****Moderator: Mario Sanna (Italy)**

- LS2-3-1 Transcervical approach to parapharyngeal space tumors**
Gianluca Piras
Gruppo Otologico, Italy
- LS2-3-2 Transcervical-transmastoid approaches to the parapharyngeal space tumors**
Sampath Chandra Prasad
Gruppo Otologico, Italy
- LS2-3-3 Infratemporal Fossa Approach for parapharyngeal tumors involving the jugular foramen**
Alessandra Russo
Gruppo Otologico, Italy
- LS2-3-4 The use of Quantum Resonance Bipolar in Endoscopic Endonasal and Open Skull Base Surgery**
Paul A. Gardner
University of Pittsburgh School of Medicine, USA

Sponsored by: TOKIBO CO.,LTD.

Concurrent Session 2-2

13:50~15:20

Room D (Conference Room 1002)

Surgery of Giant Vestibular Schwannoma: Conquering the Challenge**Moderators: Eiji Kohmura (Japan)**
Sunil K. Gupta (India)
Apio Antunes (Brazil)

- CS2-2-1 Techniques of facial nerve preservation in large and giant vestibular schwannomas**
Keynote Suresh Nair
Department of Neurosurgery, Sree Chitra Tirunal Institute for Medical Sciences & Technology, India
- CS2-2-2 Surgical management of giant vestibular schwannoma: A review of 657 cases**
Ping Zhong
Department of Neurosurgery, Huashan Hospital, Fudan University, China
- CS2-2-3 Surgery of giant or large vestibular schwannoma**
Eiji Kohmura
Department of Neurosurgery, Kobe University Graduate School of Medicine, Japan
- CS2-2-4 ‘Complete extra-arachnoidal dissection’ and ‘Tailored drilling of the internal auditory canal’ – Our techniques for surgery of Giant Vestibular Schwannomas**
Sunil K. Gupta
Department of Neurosurgery, PGIMER, India
- CS2-2-5 Surgical results for the treatment of T3 and T4 acoustic schwannomas**
Apio Antunes
Department of Neurosurgery, Universidade Federal Do Rio Grande Do Sul, Porto Alegre Medical School, Brazil
- CS2-2-6 Radical removal of giant acoustic neuromas**
Antonio Cerejo
Department of Neurosurgery, University of Porto, Portugal
- CS2-2-7 Giant vestibular schwannomas - Nuances and challenges of good neurological outcome based on personal experience of about 1000 operations**
Keki Turel
Department of Neurosurgery, Bombay Hospital Institute of Medical Sciences, India

Panel Discussion 2-1

15:50~17:20

Room D (Conference Room 1001)

Robotic Surgery for Skull Base Lesions**Moderators:** Jörg Schipper (*Germany*)Akio Morita (*Japan*)Marco D. Caversaccio (*Switzerland*)

- PD2-1-1 Robotic system for neurosurgery**
William Couldwell
Department of Neurosurgery, University of Utah, USA
- PD2-1-2 Validation of precision for a multi-port approach to the cochlea**
Jörg Schipper
Department of Otorhinolaryngology, University Hospital Düsseldorf, Germany
- PD2-1-3 Medical engineering and micro-neurosurgery**
Akio Morita
Department of Neurological Surgery, Nippon Medical School, Japan
- PD2-1-4 Development of robotics neurosurgery in shinshu university**
Tetsuya Goto
Department of Neurosurgery, Shinshu University School of Medicine, Japan
- PD2-1-5 Advances of robotic cochlear implantation in Bern**
Marco D. Caversaccio
University Hospital Bern, Department of ORL, Head and Neck surgery / Artorgcenter, Switzerland

Proffered Paper 2-4

17:20~18:30

Room D (Conference Room 1001)

Endoscopic Skull Base Surgery: Progression of Newer Techniques**Moderators:** Diego Mazzatenta (*Italy*)Khiredine A. Bouyoucef (*Algeria*)Rahadian I. Susilo (*Indonesia*)

- PP2-4-1 Mapping of cranial nerves in endoscopic endonasal surgery of skull base tumors**
Alexey N. Shkarubo
Neurooncology, The N.N. Burdenko Neurosurgical Institute, Russia
- PP2-4-2 3-Dimensional multimodal imaging and intraoperative navigation in endoscopic skull base surgery**
Sumin Geng
Department of Neurosurgery, Beijing Tiantan Hospital / Capital Medical University, China
- PP2-4-3 Significance of identifying posterior septal arteries with ultrasound doppler**
Norio Ishiwatari
Department of Neurosurgery, Chiba University, Japan
- PP2-4-4 Endoscopic endonasal approach for skull base tumors**
Mohamed S. Saber
Department of Neurosurgery, Frantz Fanon University Hospital of Blida, Algeria
- PP2-4-5 Pure single nostril Endoscopic Endonasal Transsphenoidal Hypophysectomy surgery: Clinical series of 50 cases**
Rahadian I. Susilo
Department of Neurosurgery, Faculty of Medicine Airlangga University / Dr Soetomo General Hospital, Indonesia
- PP2-4-6 Endoscopic transoral transclival approach to jugular foramen and hypoglossal canal: Anatomy study and clinical implications**
Mingchu Li
Department of Neurosurgery, Capital Medical University Xuanwu Hospital, China / Skull Base Surgery Center, China International Neuroscience Institute (China-INI), China
- PP2-4-7 Withdrawn**

Breakfast Seminar 2-5

7:30~8:10

Room E (Conference Room 1002)

Suprasellar and Third Ventricular Tumors: Safer Surgical Management**Moderators:** Antonio Cerejo (*Portugal*)Amr M. Safwat (*Egypt*)

- BS2-5-1 Trans lamina terminalis approach to 3rd ventricle in craniopharyngioma**
Antonio Cerejo
Department of Neurosurgery, University of Porto, Portugal
- BS2-5-2 Avoiding complications of the endoscopic third ventriculostomy**
Imane Bersali
Department of Neurosurgery - Frantz Fanon University Hospital of Blida, Algeria
- BS2-5-3 Contra lateral approach to supra sellar meningioma**
Manas Panigrahi
Department of Neurosurgery, Krishna Institute of Medical Sciences, Hyderabad, India
- BS2-5-4 Safe way for management of incompletely excised craniopharyngiomas**
Amr M. Safwat
Department of Neurosurgery, Faculty of Medicine, Cairo University, Egypt

Sponsored Statellite Session 1

8:10~8:40

Room E (Conference Room 1002)

MSD Morning Statellite Session**Moderator:** Masazumi Fujii (*Japan*)

- SSS2-1-1 Usefulness of intraoperative visual evoked potential and electrooculographic monitoring for anterior skull base and parasellar tumor surgery**
Takakazu Kawamata
Department of Neurosurgery, Tokyo Women's Medical University, Japan
- SSS2-1-2 Selection of skull base technique in removing parasellar tumors**
Keisuke Maruyama
Department of Neurosurgery, Kyorin University School of Medicine, Japan

Sponsored by: MSD K.K.

Main Session 2-4

8:40~10:10

Room E (Conference Room 1001)

Paragangliomas and Jugular Foramen Tumors: Recent Management**Moderators:** Michael Gleeson (*UK*)Nabil Mohamed Abdel Rahman (*Egypt*)Jie Tang (*China*)

- MS2-4-1 Paragangliomas and jugular foramen tumors: Recent management**
Keynote
Michael Gleeson
Department of Neurosurgery, National Hospital for Neurology and Neurosurgery, UK
- MS2-4-2 Surgical management of giant glomus jugulars tumors**
Luis A. B. Borba
Department of Neurosurgery, Federal University of Parana, Brazil
- MS2-4-3 New trends in management of temporal bone paragangliomas**
Giovanni Danesi
ENT Department University of Kocaeli, Italy
- MS2-4-4 The interdisciplinary management of jugular foramen tumors in Alexandria**
Nabil Mohamed Abdel Rahman
Department of Neurosurgery, Alexandria University, Egypt
- MS2-4-5 Tumors of the jugular foramen : Diagnosis and management**
Ricardo Ramina
Department of Neurosurgery, Neurological Institute of Curitiba, Brazil

MS2-4-6 Microsurgical treatment for non-glioma tumors of jugular foramen

Jie Tang

*Department of Neurosurgery, Beijing Tiantan Hospital, China***Concurrent Session 2-3**

13:50~15:20

Room E (Conference Room 1003)

Surgery of Craniopharyngioma: How To Excel ?**Moderators:** Eka J. Wahjoepramono (*Indonesia*)Siviero Agazzi (*USA*)Saleem Abdulrauf (*USA*)**CS2-3-1 Lamina terminalis approach for craniopharyngioma**

Ibrahim Sbeih

*Department of Neurosurgery, Ibn Alhaytham Hospital, Jordan***CS2-3-2 Middle fossa approach to craniopharyngiomas**

Siviero Agazzi

*University of South Florida Dpt of Neurosurgery, USA***CS2-3-3 Surgery of craniopharyngioma**

Eka J. Wahjoepramono

*Department of Neurosurgery, Pelita Harapan University, Indonesia***CS2-3-4 Craniopharyngioma: Modernistic view**

Samy Youssef

*Department of Neurosurgery, University of Colorado, USA***CS2-3-5 Endoscopic endonasal surgery for the management of pediatric craniopharyngioma**

Phillip B. Storm

*Neurosurgery / Children's Hospital of Philadelphia / University of Pennsylvania, USA***CS2-3-6 Nuances in supra-sellar tumor surgery****Keynote**

Saleem Abdulrauf

*Department of Neurological Surgery, Saint Louis University Center for Cerebrovascular and Skull Base Surgery, USA***Proffered Paper 2-1**

15:50~17:20

Room E (Conference Room 1002)

Chordoma Surgery: Favorable Strategies and Outcome**Moderators:** Shaan M. Raza (*USA*)Kentaro Watanabe (*France*)Jacques Morcos (*USA*)**PP2-1-1 Staged surgical strategy with far medial endoscopic endonasal approach and endoscopy-assisted far lateral transcranial approach for chordoma of the craniocervical junction and upper cervical spine**

Shunya Hanakita

*Department of Neurosurgery, Hospital Lariboisiere, University of Paris VII-Diderot, France***PP2-1-2 Endoscopic endonasal surgery for chordomas and chondrosarcomas**

Takuma Hara

*Department of Neurosurgery, University of Tsukuba, Japan***PP2-1-3 Endoscopic surgery for cranial chordoma and chondrosarcoma compressing brainstem**

Hirotaka Hasegawa

*Department of Neurosurgery, University of Tokyo, Japan***PP2-1-4 Temporal bone chondrosarcomas (CSAs): Site specific surgical strategies**

Shaan M. Raza

*Department of Neurosurgery, The University of Texas M.D. Anderson Cancer Center, USA***PP2-1-5 Outcome of clival chordomas with mean follow-up of 10 years**

Kiyoshi Saito

Department of Neurosurgery, Fukushima Medical University, Japan

- PP2-1-6 Increasing the surgical corridor in deep-seated lesions: The value of the endoscopic assistance**
Kentaro Watanabe
Department of Neurosurgery, Lariboisiere Hospital, France
- PP2-1-7 Skull base chordomas and chondrosarcomas: Outcomes of multi-disciplinary management**
Jawad Yousaf
Department of Neurosurgery, Salford Royal NHS Foundation Trust, UK

Proffered Paper 2-5

17:20~18:30

Room E (Conference Room 1002)

Importance of Image-guided Operation: Educational Benefits

Moderators: Luis Fernando M. Silva Jr. (Brazil)
Masazumi Fujii (Japan)

- PP2-5-1 Neuronavigation and ICG angiography for the posterior transpetrosal approach**
Kazuhiko Kurozumi
Department of Neurosurgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan
- PP2-5-2 A novel method for imaging white matter pathways in distorted brain anatomies that combines MRI tractography with visual evoked potentials**
Say Ayala-Soriano
Department of Neurosurgery, University College London, Institute of Child Health / Great Ormond Street Hospital / Department of Neuroimaging, Institute of Child Health, UK
- PP2-5-3 Image-guided skull base surgery, from surgical simulation toward navigation**
Masazumi Fujii
Department of Neurosurgery, Fukushima Medical University, Japan
- PP2-5-4 Capturing skull and brain surface by kinect v2 for brain-shift simulated by GPU**
Hiroshi Noborio
Osaka Electro-Communication University, Japan
- PP2-5-5 Withdrawn**
- PP2-5-6 A training model for ICA in endoscopic endonasal surgery**
Jun Muto
The Ohio State University, Department of Neurological Surgery, USA / Keio University School of Medicine, Department of Neurosurgery, Japan
- PP2-5-7 Sylvian aesthetics in skull base**
Ismail H. Aydin
Department of Neurosurgery, Istanbul Aydin University, Turkey

Japanese Session 2-1

7:30~8:30

Room F (Conference Room 801-2)

Different Approaches for Vascular Surgery (Session in Japanese)

Moderators: Fusao Ikawa (*Japan*)
Kentaro Mori (*Japan*)

- JS2-1-1 2 cases of giant aneurysms operated via transpetrosal approach in posterior fossa**
Kazumi Ohmori
Department of Neurosurgery/ Stroke Center, Nishinomiya Watanabe Cardiovascular Center, Japan
- JS2-1-2 Treatment for Unruptured Aneurysms of Basilar Artery - Superior Cerebral Artery via Anterior Temporal Approach**
Go Matsuoka
Department of Neurosurgery, Tokyo Women's Medical University, Japan
- JS2-1-3 The surgical strategy for parasellar vascular lesions via transzygomatic subtemporal approach**
Yasuo Hironaka
Department of Neurosurgery, Nara Medical University, Japan
- JS2-1-4 Direct trapping for right PICA dissecting aneurysm with left transcondylar approach: A case report**
Tomoyuki Nakano
Department of Neurosurgery, Tokyo Medical and Dental University, Japan
- JS2-1-5 Surgical strategy of AVMs in the posterior fossa using fruitful 3-dimensional simulation**
Hisaharu Gotou
Department of Neurosurgery, Yamaguchi University, Japan
- JS2-1-6 Surgical Treatment and outcome for Paraclinoid Aneurysms**
Toshiyuki Tsuboi
Department of Neurosurgery, Teishinkai Hospital, Japan
- JS2-1-7 Osteoplastic procedure for frontotemporal craniotomy**
Yasuhiro Sanada
Department of Neurosurgery, Kindai University, Japan

Japanese Session 2-2

8:40~10:10

Room F (Conference Room 801-2)

Endoscopic Surgery/Suprasellar Tumors: Advanced Treatment (Session in Japanese)

Moderators: Amami Kato (*Japan*)
Hiroyuki Akutsu (*Japan*)

- JS2-2-1 The 2 cases undergoing endoscopic extended TSS with reconstruction of sellar floor using nasal floor flap**
Yuri Aimi
Department of Neurosurgery, Yokkaichi Municipal Hospital, Japan
- JS2-2-2 Endoscopic transsphenoidal surgery: Evolution of surgical technique and equipment**
Shohei Kohno
Department of Neurosurgery, Ehime University, Japan
- JS2-2-3 Radiologic anatomy and evaluation of the ophthalmic artery penetrating the optic strut**
Bunsho Asayama
Department of Neurosurgery, Nakamura Memorial Hospital, Japan
- JS2-2-4 Reconstruction of the skull base after endoscopic transsphenoidal surgery in our institution**
Takahito Fukui
Department of Neurosurgery, Nakamura Memorial Hospital, Japan
- JS2-2-5 Surgical simulation of endoscopic endonasal anterior skull base surgery using 3D head model**
Satoru Kodama
Department of Otolaryngology, Head and Neck Surgery, Oita University Faculty of Medicine, Japan
- JS2-2-6 Suprasellar meningiomas: Contralateral extended subfrontal approach**
Yoshihiro Minamida
Department of Neurosurgery, Sunagawa City Medical Center, Japan

Japanese Session 2-3

13:50~15:20

Room F (Conference Room 801-2)

Controversies in Skull Base Surgery (Session in Japanese)

Moderators: Yoshinori Higuchi (*Japan*)
Yasushi Shin (*Japan*)

- JS2-3-1 A case of huge atypical meningioma in the middle fossa resected by intentional multi-staged surgery**
Kohei Kanaya
Department of Neurosurgery, Shinshu University School of Medicine, Japan
- JS2-3-2 Cerebellopontine angle tumor presenting with cranial nerve hyperactive dysfunction**
Yoshinori Higuchi
Department of Neurological Surgery, Chiba University Graduate School of Medicine, Japan
- JS2-3-3 The concept and the surgical techniques for the minimally invasive surgery for the craniocervical region**
Yasushi Shin
Department of Neurosurgery, Osaka Police Hospital, Japan
- JS2-3-4 The efficacy of the drainage via mastoidectomy for cerebellar abscess: A case report**
Yumiko Okada
Department of Neurosurgery, Murata Hospital, Japan
- JS2-3-5 Closure of opened mastoid aircell by pediculated muscle flap in the lateral suboccipital craniotomy**
Tetsuya Goto
Department of Neurosurgery, Shinshu University School of Medicine, Japan
- JS2-3-6 A case of facial nerve reconstruction using vascularized bi-directional nerve graft**
Nobuhiro Konno
Department of Otolaryngology, Hakodate Municipal Hospital, Japan
- JS2-3-7 Clinical analysis of squamous cell carcinoma of the ethmoid sinus**
Takeharu Ono
Department of Otolaryngology- Head and Neck Surgery, Kurume University School of Medicine, Japan

Proffered Paper 2-2

15:50~17:20

Room F (Conference Room 801-2)

Transcranial Skull Base Surgery: Improvement for the Better Outcome

Moderators: Qing Xie (*China*)
Tetsuro Sameshima (*Japan*)
Ashish Suri (*India*)

- PP2-2-1 Trans-eyelid approach in treating meningioma of anterior and middle cranial base**
Qing Xie
Huashan Hospital of Fudan University, China / Department of Neurosurgery, Fudan University, China
- PP2-2-2 Middle infratemporal fossa keyhole approach for the parapharyngeal tumors**
Yoichi Nonaka
Department of Neurosurgery, Shin-Yurigaoka General Hospital, Japan
- PP2-2-3 Effect of fibrin glue injection into the cavernous sinus on the venous drainage**
Terushige Toyooka
Department of Neurosurgery, National Defense Medical College, Japan
- PP2-2-4 Anatomical and clinical findings of modified orbitozygomatic craniotomy**
Toshiaki Koderu
Department of Neurosurgery, University of Fukui, Japan
- PP2-2-5 Trans-SOF approach for paraclinoid lesions: Operative tips and cadaveric study**
Naoki Otani
Department of Neurosurgery, National Defense Medical College, Japan

PP2-2-6 Evaluation of variation in the course of the facial nerve in acoustic neuromas

Tetsuro Sameshima

Department of Neurosurgery, University of Hamamatsu, Japan

PP2-2-7 Radical resection of craniopharyngioma via the extradural temporopolar approach

Nakao Ota

Department of Neurosurgery, Sapporo Teishinkai Hospital, Japan

Panel Discussion 2-3

17:20~18:30

Room F (Conference Room 801-2)

Facial Nerve Schwannoma: Surgical Techniques

Moderators: Jong Woo Chung (*Korea*)
Yang-Sun Cho (*Korea*)
In Seok Moon (*Korea*)

PD2-3-1 Common management strategies of Facial Nerve Schwannomas

Romain Kania

Otorhinolaryngology Head Neck Surgery, Paris Sorbonne University, France

PD2-3-2 Facial nerve schwannoma-consideration for the best outcome

Jong Woo Chung

Otorhinolaryngology Head & Neck Surgery, University of Ulsan College of Medicine, Asan Medical Center, Korea

PD2-3-3 Management of facial nerve tumor

Yang-Sun Cho

Department of Otolaryngology, Sungkyunkwan University, Samsung Medical Center, Korea

PD2-3-4 Who is the best candidate for stripping technique in the facial nerve schwannoma?

In Seok Moon

ENT, Yonsei University College of Medicine, Korea