
June 15

Main Session 1-1

8:00~9:30

Room A (Conference Room 1003)

Surgery of Chordoma: Trending Treatments

Moderators: David Choi (*UK*)
 Sebastien Froelich (*France*)

- MS1-1-1 Chordoma: Can we achieve cure?**
Keynote Ossama Al-Mefty
Department of Neurosurgery, Brigham and Women's Hospital, Harvard Medical School, USA
- MS1-1-2 Chordomas of skull base: State of the Art**
 Laligam N. Sekhar
Department of Neurological Surgery, University of Washington, USA
- MS1-1-3 Treatment of clival and craniocervical junction chordomas**
 David Choi
University College London Hospitals, UK
- MS1-1-5 Chordomas**
 Sebastien Froelich
Department of Neurosurgery, Lariboisiere Hospital, France
- MS1-1-6 Proton radiotherapy for adult cases with clival chordoma**
 Kouji Tsuboi
Departments of Radiation Oncology, University of Tsukuba, Japan

Plenary Session 1-1

9:40~10:25

Room A (Conference Room 1003)

Hakuba Memorial Session

Moderators: Takeshi Kawase (*Japan*)
 Takamasa Kayama (*Japan*)
 Basant K. Misra (*India*)

- PS1-1-1 Presidential address**
 Kenji Ohata
Department of Neurosurgery, Osaka City University Graduate School of Medicine, Japan
- PS1-1-2 How endoscope can support skull base microsurgery**
 Madjid Samii
INI Hannover, Germany
- PS1-1-3 Skull base surgery: The premise and the promise**
 Ossama Al-Mefty
Department of Neurosurgery, Brigham and Women's Hospital, Harvard Medical School, USA

Plenary Session 1-2

10:25~11:10

Room A (Conference Room 1003)

Plenary Symposium

Moderators: Kenji Ohata (*Japan*)
 Atul Goel (*India*)

- PS1-2-1 Training for risk management in skull base surgery: Is it rocket science?**
 Jacques Morcos
Department of Neurosurgery, University of Miami, USA
- PS1-2-2 Risk management for human spaceflight system and operations**
 Kaneaki Narita
Japan Aerospace Exploration Agency, Japan

Jun. 15

Day 1

Room A

Main Session 1-2

11:20~12:40

Room A (Conference Room 1003)

Controversies in Skull Base Surgery: Endoscopy vs. Craniotomy

Moderators: Fred Gentili (*Canada*)
 Paul A. Gardner (*USA*)
 Savaş Ceylan (*Turkey*)

- MS1-2-1 Endoscopy versus craniotomy: Where are we on Scott's Parabola in 2016?**
Keynote Jacques Morcos
Department of Neurosurgery, University of Miami, USA
- MS1-2-2 Management of craniopharyngiomas: Open vs. endoscopic techniques**
 Fred Gentili
Department of Neurosurgery, University of Toronto, Canada
- MS1-2-3 Appropriate surgical indication of endoscopic endonasal approach for complicated skull base tumors**
 Takeo Goto
Department of Neurosurgery, Osaka City University Graduate School of Medicine, Japan
- MS1-2-4 Complications of nasoseptal flap reconstruction**
 Carl H. Snyderman
Department of Otolaryngology, University of Pittsburgh Medical Center, USA
- MS1-2-5 Extended endoscopic transsphenoidal approach infrachiasmatic corridor (Including tuberculum sella meningiomas, craniopharyngioma and other pathologies)**
 Savaş Ceylan
Department of Neurosurgery, University of Kocaeli, Turkey
- MS1-2-6 Endoscopic endonasal surgery for meningiomas: Advances and limitations**
 Paul A. Gardner
Department of Neurosurgery, University of Pittsburgh Medical Center, USA

Main Session 1-3

14:00~15:30

Room A (Conference Room 1003)

Evolution of Lateral Skull Base / Infratemporal Fossa Approaches

Moderators: Dan M. Fliss (*Israel*)
 Kenichi Nibu (*Japan*)
 Dennis H. Kraus (*USA*)

- MS1-3-1 Infratemporal fossa approach**
Keynote Dan M. Fliss
Division of Otolaryngology, Head and Neck Surgery and Maxillofacial Surgery Tel Aviv Sourasky Medical Center, Israel
- MS1-3-2 Management of the infratemporal fossa for malignancy**
 Dennis H. Kraus
Northwell Health, Lenox Hill Hospital, NYHNI Otolaryngology, USA
- MS1-3-3 Pure endoscopic and combined approaches to the petrous apex tumors**
 Giovanni Danesi
ENT Department and Microsurgery of Skull Base, Ospedali Riuniti, Italy
- MS1-3-4 The role of endoscopy for surgical management of infratemporal fossa tumors**
 James K. Liu
Department of Otolaryngology – Head and Neck Surgery, Rutgers New Jersey Medical School, USA
- MS1-3-5 Endoscopic transsphenoidal anterior petrosal approach for petroclival tumors**
 Masahiro Shin
Department of Neurosurgery, The University of Tokyo, Japan
- MS1-3-6 Distinct endoscopic endonasal approaches to paraclival skull base lesions**
 Masaaki Taniguchi
Department of Neurosurgery, Kobe University Graduate School of Medicine, Japan

Panel Discussion 1-1

16:00~17:10

Room A (Conference Room 1003)

Treatment Management of NF2

Moderators: Jörg Schipper (*Germany*)
 Robert Behr (*Germany*)
 Scott Plotkin (*USA*)

- PD1-1-1 Auditory brainstem implants**
Keynote Robert Behr
Department of Neurosurgery, Klinikum Fulda Academic Hospital of the University of Marburg, Germany
- PD1-1-2 Hearing rehabilitation in NF2**
 James R. Tysome
Department of ENT Cambridge University Hospitals, UK
- PD1-1-3 Evaluation of clinical factors of NF2 from nationwide registry data in Japan**
 Kensho Iwatate
Department of Neurosurgery, Fukushima Medical University, Japan
- PD1-1-4 Growth patterns of intracranial tumors in neurofibromatosis type 2**
 Steffen K. Rosahl
Department of Neurosurgery, HELIOS Klinikum, Erfurt, Germany
- PD1-1-5 Dynamic contrast enhancement in MRI as a tool for assessing and predicting response to bevacizumab treatment for vestibular schwannoma in NF2**
 Hannah J.D. North
Salford Royal Foundation Trust, UK
- PD1-1-6 Activity and toxicity of bevacizumab treatment for neurofibromatosis- 2 related vestibular schwannoma**
 Scott Plotkin
Department of Neurology and Cancer Center, Massachusetts General Hospital, USA

Proffered Paper 1-6

17:20~18:20

Room A (Conference Room 1003)

Use of Radiosurgery/Radiation therapy in Various Tumors

Moderators: Georgios Kontorinis (*UK*)
 Marcello Marchetti (*Italy*)
 Tomio Sasaki (*Japan*)

- PP1-6-1 Volumetric change of vestibular schwannomas after gamma knife radiosurgery**
 Osamu Nagano
Department of Neurosurgery, Chiba Cerebral and Cardiovascular Center, Japan
- PP1-6-2 Treatment failure following SRS for vs; surgery or repeat SRS?**
 Jawad Yousaf
Department of Neurosurgery, Salford Royal NHS Foundation Trust, UK
- PP1-6-3 Delayed vestibular schwannoma growth following stereotactic radiosurgery**
 Georgios Kontorinis
Department of Otolaryngology, Queen Elizabeth University Hospital, UK
- PP1-6-4 Head and neck paragangliomas radiosurgery: Long-term experience**
 Marcello Marchetti
Department of Neurosurgery, Radiotherapy Unit, Fondazione IRCCS Istituto Neurologico "C.Besta", Italy
- PP1-6-5 Linac frameless radiosurgery for trigeminal neuralgia**
 Claude F. Litre
Department of Neurosurgery, University Reims, France
- PP1-6-6 Proton beam therapy for pediatric skull base tumors**
 Masashi Mizumoto
Departments of Radiation Oncology, University of Tsukuba, Japan

Concurrent Session 1-1

8:00~9:30

Room B (Conference Room 1009)

Surgery of CP Angle Tumors: Conquering the Skills

Moderators: Toshio Matsushima (*Japan*)
 Hisham A. Aboul-Enein (*Egypt*)
 Han K. Kim (*Korea*)

- CS1-1-1 Venous Anatomy for C-P angle Surgeries**
Keynote Toshio Matsushima
Neuroscience Center, Fukuoka Sanno Hospital, Japan
- CS1-1-2 Cerebellopontine angle epidermoid cysts: New pathogenesis of cranial nerve dysfunction and their surgical outcome**
 Mituhiro Hasegawa
Department of Neurosurgery, Fujita Health University, Japan
- CS1-1-3 Surgical resection of cerebello-pontine epidermoid cysts; Outcome & complications**
 Hisham A. Aboul-Enein
Department of Neurosurgery, Alexandria University, Egypt
- CS1-1-4 Surgical management of intracranial epidermoid tumors; Lessons learned from 334 cases over 3 decades**
 Goh Inoue
Department of Neurosurgery, Duke University, USA / Tokai University, Japan
- CS1-1-5 Surgical management of cerebello-pontine angle epidermoid tumors**
 Milind Dunakhe
Department of Neurosurgery, Dunakhe Hospital Pvt. Ltd., India
- CS1-1-6 Development of TED scale for the surgery of petroclival tumors**
 Han Kyu Kim
Department of Neurosurgery, Bundang Jesang General Hospital, Korea
- CS1-1-7 Surgical management of trigeminal neuroma**
 Chang J. Kim
Department of Neurological Surgery, Asan Medical Center, University of Ulsan College of Medicine, Korea

Concurrent Session 1-5

11:20~12:40

Room B (Conference Room 1009)

Current Treatment of Vestibular Schwannoma: Adapting Conservative Treatment

Moderators: Martin Sames (*Czech Republic*)
 Soren Hansen (*Denmark*)
 Iwao Yamakami (*Japan*)

- CS1-5-1 Indication of surgery for small acoustic neuroma**
Keynote Madjid Samii
Department of Neurosurgery, INI Hannover, Germany
- CS1-5-2 Conservatively managed sporadic vestibular schwannoma: Quality of life**
 Soren Hansen
Department of Otorhinolaryngology Head and Neck Surgery, Rigshospitalet, Copenhagen University Hospital, Denmark
- CS1-5-3 Long-term outcome of small acoustic neurinoma removal with hearing preservation**
 Iwao Yamakami
Department of Neurosurgery, Seikei-kai Chiba Medical Center, Japan
- CS1-5-4 Improving efficacy and safety of radiosurgery in skull base tumors: The role of microsurgery**
 Luis Fernando M. Silva Jr.
Neurological Institute of Curitiba - INC, Brazil
- CS1-5-5 Surgical results and technical refinements in translabyrinthine excision of vestibular schwannomas: The gruppo otologico experience**
 Alessandra Russo
Gruppo Otologico, Italy

CS1-5-6 Quality of life in neurofibromatosis 2 patients - More than just vestibular schwannomas

Scott Plotkin

*Department of Neurosurgery and Cancer Center, Massachusetts General Hospital, USA***Luncheon Satellite 1-1**

12:50~13:50

Room B (Conference Room 1009)

CODMAN Luncheon Satellite Session**Surgical strategic review for acoustic neuroma from the neurotological perspectives****Moderator: Mitsuhiro Hasegawa** (*Japan*)**LS1-1-1**

Mario Sanna

*Neurotologist, Gruppo Otologico, Italy***LS1-1-2**

Masamichi Kurosaki

Tottori University Hospital, Japan

Sponsored by: Johnson & Johnson K.K.

Main Session 1-4

14:00~15:30

Room B (Conference Room 1009)

Jugular Foramen/ Craniovertebral Junction Tumors: Choosing the Optimum Approach**Moderators: Jose A. Landeiro** (*Brazil*)**Toshio Matsushima** (*Japan*)**Zhen Wu** (*China*)**MS1-4-1 Posterolateral access to the foramen magnum - All problems solved?****Keynote**

Helmut Bertalanffy

*Department of Neurosurgery, INI Hannover, Germany***MS1-4-3 Surgery for jugular foramen tumors**

Michihiro Kohno

*Department of Neurosurgery, Tokyo Medical University, Japan***MS1-4-4 Foramen magnum meningiomas: Choosing the best approach**

Jose A. Landeiro

*Department of Neurosurgery, Universidade Federal Fluminense / Hospital Universitário Antônio Pedro, Brazil***MS1-4-5 Foramen magnum meningiomas: Surgical results and risks predicting poor outcomes**

Zhen Wu

*Department of Neurosurgery, Beijing Tiantan Hospital, Capital Medical University, China***MS1-4-6 Endoscopic endonasal odontoidectomy and posterior stabilization: Preliminary experience with a single-step surgical procedure**

Filippo F. Angileri

*Department of Biomedical and Dental Sciences and Morphofunctional Imaging, University of Messina, Italy***Proffered Paper 1-1**

16:00~17:10

Room B (Conference Room 1009)

Management of CV Junction/Jugular Foramen Tumors**Moderators: Atul Goel** (*India*)**Yasushi Shin** (*Japan*)**Hun H. Park** (*Korea*)**PP1-1-1 Facial and lower cranial nerve preservation in jugular schwannoma surgery**

Zhaoyan Wang

*Department of Otolaryngology – Head and Neck Surgery, Shanghai Jiaotong University, School of Medicine, China***PP1-1-2 Function-preserving multi-modal treatment for jugular foramen meningiomas**

Seiro Ito

Department of Neurosurgery, Chiba Rosai Hospital, Japan

- PP1-1-3 Long-term functional and recurrence outcomes of jugular foramen schwannomas**
Da Li
Department of Neurosurgery, Beijing Tiantan Hospital, Capital Medical University, China
- PP1-1-4 Minimally invasive lateral approach and its extension for the craniocervical region**
Yasushi Shin
Department of Neurosurgery, Osaka Police Hospital, Japan
- PP1-1-5 Muscular stage dissection during far lateral approach and its transcondylar extension**
Akihito Sato
Department of Neurosurgery, Shioda Memorial Hospital, Japan / Department of Neurosurgery, Tokyo Medical and Dental University, Japan
- PP1-1-6 Vertebral artery transposition for cranio-cervical junction tumors**
Hun H. Park
Department of Neurosurgery, Yonsei University, Korea

Special Session 1-3

17:20~18:20

Room B (Conference Room 1009)

Mayo Clinic and Bergen Group Collaborative Session: Predicting Long Term Quality of Life in Vestibular Schwannoma Patients

Moderators: Morten Lund-Johansen (Norway)
Michael J. Link (USA)

- SS1-3-1 Long-term headache disability in patients with sporadic vestibular schwannoma**
Colin L. Driscoll
Department of Otolaryngology – Head and Neck Surgery, Mayo Clinic, USA
- SS1-3-2 Self-perceived hearing and audiometry in VS patients: "Excellent" hearing is not all that excellent**
Morten Lund-Johansen
Bergen University Hospital, Norway
- SS1-3-3 Impact of facial nerve dysfunction on disability and quality of life in patients with vestibular schwannoma**
Oystein V. Tveiten
Department of Clinical Medicine, University of Bergen / Neurosurgical Department, Haukeland University Hospital, Norway
- SS1-3-4 What factors are the strongest predictors of quality of life outcome in patients with sporadic vestibular schwannoma?**
Matthew L. Carlson
Department of Otorhinolaryngology, Head and Neck Surgery, Mayo Clinic, USA
- SS1-3-5 Long-term quality of life in patients with sporadic vestibular schwannoma: A comparison between observation, microsurgery, radiosurgery and non-tumor controls**
Michael J. Link
Department of Neurosurgery, Mayo Clinic, USA

Evening Satellite 1

18:30~19:15

Room B (Conference Room 1009)

**Brainlab Evening Satellite Session
The image guided skull base surgery**

Moderator: Shingo Murakami (Japan)

- ES1-1 Who navigates the surgery?**
Yoshihiro Natori
Aso Iizuka Hospital, Japan
- ES1-2 Dolenc Approach, Neurosurgeon must not forget**
Kentaro Mori
Department of Neurosurgery, National Defense Medical College, Japan

Sponsored by: Brainlab K.K.

Concurrent Session 1-2

8:00~9:30

Room C (Conference Room 1008)

Innovative Skull Base Technologies for Aneurysm Surgery

Moderators: **Basant K. Misra** (*India*)
Amir R. Dehdashti (*USA*)
Isao Date (*Japan*)

- CS1-2-1 Microsurgery of giant aneurysms**
Keynote Basant K. Misra
Department of Neurosurgery, P. D. Hinduja National Hospital and Medical Research Centre, India
- CS1-2-2 Skull base approaches for vascular lesions**
 Amir R. Dehdashti
Department of Neurosurgery, Northshore University Hospital, USA
- CS1-2-3 Analysis of supraorbital keyhole approach in groups of middle cerebral artery(MCA) aneurysms and anterior communicating artery(AcoA) aneurysms**
 Chae H. Lee
Department of Neurosurgery, Ilsan Paik Hospital, College of Medicine, Inje University, Korea
- CS1-2-4 Skull base procedure and suction decompression method for large and giant paraclinoid aneurysm clipping**
 Isao Date
Department of Neurosurgery, Okayama University Graduate School of Medicine, Japan
- CS1-2-5 Surgery for the intracranial aneurysms**
 Hiroyuki Kinouchi
Department of Neurosurgery, University of Yamanashi, Japan
- CS1-2-6 Future of art of clipping of aneurysm?**
 Ashwani K. Chaudhary
Department of Neurosurgery, Dayanand Medical College & Hospital, India
- CS1-2-7 Unruptured aneurysms - The real challenge**
 Florian I. Stefan
Department of Neurosurgery, Iuliu Hatieganu University Of Medicine and Pharmacy, Romania

Concurrent Session 1-6

11:20~12:40

Room C (Conference Room 1008)

Contemporary Management of Sinonasal Malignancy

Moderators: **Dennis H. Kraus** (*USA*)
Ehab Hanna (*USA*)
Masashi Sugawara (*Japan*)

- CS1-6-1 Management of sinonasal malignancy and anterior craniofacial resection**
Keynote Dennis H. Kraus
Northwell Health, Lenox Hill Hospital, NYHNI Otolaryngology, USA
- CS1-6-2 Oncologic outcomes of treatment of sinonasal cancers**
 Ehab Y. Hanna
The University of Texas MD Anderson Cancer Center, USA
- CS1-6-3 Resection of malignant nasopharyngeal carcinomas in western countries then and now**
 Luiz P. Kowalski
Department of Head and Neck Surgery, A. C. Camargo Cancer Center, Brazil
- CS1-6-4 Treatment selection for advanced paranasal cancer**
 Masashi Sugawara
Department of Head and Neck Surgery, International Medical Center, Saitama Medical University, Japan
- CS1-6-5 Sino-nasal malignancies involving anterior skull base: Approaches and our experience**
 Rajan V. Sundaresan
Department of ENT-1, Head & Neck Skull Base Unit, Christian Medical College, India

- CS1-6-6 The role of human papilloma virus type 16 associated with malignant transformation of sinonasal squamous cell carcinoma**
Takenori Ogawa
Department of Otolaryngology - Head and Neck Surgery, Tohoku University Graduate School of Medicine, Japan
- CS1-6-7 Paranasal sinus and Skull base Malignance Management**
Gustavo F. Nogueira
Otorrinolaringologia, Cirurgia de Base de Crânio, Brazil

Luncheon Satellite 1-2

12:50~13:50

Room C (Conference Room 1008)

Leica Microsystems Luncheon Satellite Session**Moderator: Takanori Fukushima (USA)****Hearing preservation and complication avoidance in acoustic neuroma**

- LS1-2-1 Facial nerve preservation techniques in large acoustic neuroma surgery**

Michihiro Kohno

Department of Neurosurgery, Tokyo Medical University, Tokyo, Japan

Sponsored by: Leica Microsystems

Concurrent Session 1-10

14:00~15:30

Room C (Conference Room 1008)

Functional Preservation in Vestibular Schwannoma**Moderators: Per Caye-Thomasen (Denmark)****Kazuhiro Hongo (Japan)****Hirofumi Nakatomi (Japan)**

- CS1-10-1 CPA master neuromonitoring improves rate of hearing preservation after retrolabyrinthine vestibular schwannoma surgery**
Keynote
Per Caye-Thomasen
University of Copenhagen / Department of Otolaryngology – Head and Neck Surgery and Audiology, Copenhagen University Hospital Rigshospitalet, Denmark
- CS1-10-2 Surgery for the vestibular schwannoma with intraoperative monitorings**
Kazuhiro Hongo
Department of Neurosurgery, Shinshu University School of Medicine, Japan
- CS1-10-3 The cutting edge of hearing preservation surgery with DNAP monitoring for acoustic neuroma**
Hidemi Miyazaki
Tokyo Women's Medical University Medical Center East, Department of Otorhinolaryngology, / Copenhagen University Hospital Rigshospitalet, Department of Otorhinolaryngology, Head & Neck Surgery / Keio University, Department of Otorhinolaryngology, Japan
- CS1-10-4 Hearing reconstruction in cases with neurofibromatosis type 2**
Akio Morita
Department of Neurosurgery, Nippon Medical School, Japan
- CS1-10-5 Improving functional preservation in acoustic neuroma surgery**
Improving functional preservation during acoustic neuroma surgery
Hirofumi Nakatomi
Department of Neurosurgery, University of Tokyo, Japan
- CS1-10-6 Planned partial resection followed by GKS for large VSs**
Yoshiyasu Iwai
Department of Neurosurgery, Osaka City General Hospital, Japan
- CS1-10-7 Novel therapies to treat vestibular schwannomas**
James R. Tysome
ENT Department, Cambridge University Hospitals, UK

Proffered Paper 1-2

16:00~17:10

Room C (Conference Room 1008)

Craniofacial Reconstructive Surgery: Indication and Usefulness

Moderators: Kaneshige Sato (*Japan*)
Naotsugu Motomura (*Japan*)
Petr Vachata (*Czech Republic*)

- PP1-2-1 The usefulness of the musculo – pericranial flap in reconstruction of the skull base**
Hideaki Rikimaru
Kurume University School of Medicine, Japan
- PP1-2-2 Complications after the reconstruction of the anterior skull base with RAM**
Youkou Ohmaru
Kurume University, Japan
- PP1-2-3 Experience and adaptation of skull base reconstruction using free muscle flap**
Jun Suenaga
Department of Neurosurgery, Skull Base Tumor Center, Yokohama City University, Japan
- PP1-2-4 Our experience in skull base reconstruction with free flap transfer**
Hideki Yokogawa
Department of Plastic and Reconstructive Surgery, Saitama Medical University International Medical Center, Japan
- PP1-2-5 Indication of reconstructive surgery for middle skull base defects**
Kentaro Tanaka
Department of Plastic and Reconstructive Surgery, Graduate School of Medical Sciences, Tokyo Medical and Dental University, Japan
- PP1-2-6 Primary and secondary reconstruction of temporal muscle defect**
Petr Vachata
Masaryk Hospital, J. E. Purkinje University, Czech Republic / WFNS Skull Base Center Class A, Czech Republic
- PP1-2-7 Advantage of extended craniofacial resection for advanced malignant tumors of the nasal cavity and paranasal sinuses: Long-term outcome and surgical management**
Kiyohiko Sakata
Department of Neurosurgery, Kurume University, School of Medicine, Japan

Proffered Paper 1-7

17:20~18:20

Room C (Conference Room 1008)

Management of Malignant Tumors

Moderators: Produl Hazarika (*UAE*)
Kenya Kobayashi (*Japan*)
In S. Moon (*Korea*)

- PP1-7-1 Postoperative complications in skull base surgery for nasal and paranasal malignant tumors involving skull base**
Masanori Teshima
Department of Otolaryngology - Head and Neck Surgery, Kobe University Hospital, Japan
- PP1-7-2 Functional nerve preservation in parapharyngeal tumor surgery**
Kei Ijichi
Department of Otolaryngology-Head and Neck Surgery, Nagoya City University, Japan
- PP1-7-3 Spectrum analysis of parapharyngeal space tumors**
Produl Hazarika
Department of ENT, NMC Specialty Hospital, UAE
- PP1-7-4 Significance of surgery for head and neck sarcoma with skull base invasion**
Kenya Kobayashi
Department of Head and Neck Oncology, National Cancer Center Hospital, Japan

PP1-7-5 Should "parotidectomy" be done with the surgery of external auditory canal cancer?

In S. Moon

ENT, Yonsei University College of Medicine, Korea

PP1-7-6 Treatment strategy of intracranial hemangiopericytoma

Jae-Sung Park

Department of Neurosurgery, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

Concurrent Session 1-3

8:00~9:30

Room D (Conference Room 1001)

Treatment Alternatives for Midline Tumors**Moderators:** Luis Fernando M. Silva Jr. (Brazil)

Pavel Ivanov (Russia)

Takashi Tamiya (Japan)

- CS1-3-1 Keynote Handshake approach - A contribution to the management of intra - extracranial anterior skull base tumors**
Luis Fernando M. Silva Jr.
Neurological Institute of Curitiba - INC, Brazil
- CS1-3-2 Cranio-orbital pretemporal skull base approach to sellar/juxtaseilar meningiomas**
Kenan Arnautovic
Department of Neurosurgery, University of Tennessee Health Science Center, USA
- CS1-3-3 Technical strategy and pitfall in surgery for juxtaseilar skull base meningioma**
Katsumi Sakata
Department of Neurosurgery, Yokohama City University Medical Center, Japan
- CS1-3-4 Epidural approach for parasellar tumors**
Takashi Tamiya
Department of Neurosurgery, Kagawa University Faculty of Medicine, Japan
- CS1-3-5 Skull base midline tumors: Approaches selection and treatment strategy**
Zhan Xue
Department of Neurosurgery, Beijing Tiantan Hospital, China
- CS1-3-6 Cavernous sinus meningioma surgery again**
Kazuhiko Fujitsu
Department of Neurosurgery, National Hospital Organization, Yokohama Medical Center, Japan

Concurrent Session 1-7

11:20~12:40

Room D (Conference Room 1001)

Collaboration for the Future: Newest Techniques**Moderators:** Masayoshi Kobayashi (Japan)

Wuttipong Tirakotai (Thailand)

Vincent C. Cousins (Australia)

- CS1-7-1 Keynote Advantages of collaboration between otorhinolaryngologists and neurosurgeons in an endoscopic skull base surgery**
Masayoshi Kobayashi
Mie University Graduate School of Medicine, Department of Otorhinolaryngology-Head and Neck Surgery, Japan
- CS1-7-2 Hybrid surgery for anterior skull base tumor and how to repair anterior skull base**
Shigeru Nishizawa
Department of Neurosurgery, University of Occupational and Environmental Health, Japan
- CS1-7-3 Multidisciplinary approach for skull base tumors with intra and extra cranial extension**
Zhiqiang Yi
Department of Neurosurgery, Peking University First Hospital, China
- CS1-7-4 Facial reanimation: A multidisciplinary team approach**
Wuttipong Tirakotai
Prasat Neurological Institute, Thailand
- CS1-7-5 Management of dysphagia and dysphonia following skull base surgery**
Tetsuji Sanuki
Department of Otolaryngology-Head & Neck Surgery, Kumamoto University, Japan
- CS1-7-6 The management of intracranial complications of ear disease**
Vincent C. Cousins
The Alfred Hospital, Melbourne, Australia / Department of Surgery, Monash University, Australia

Luncheon Satellite 1-3

12:50~13:50

Room D (Conference Room 1001)

KARL STORZ GmbH & Co. KG Luncheon Satellite SessionModerator: Isao Date (*Japan*)**LS1-3-1**Nikolai J. Hopf
*ENDOMIN College***LS1-3-2**Robert Reisch
ENDOMIN College

Sponsored by: KARL STORZ GmbH & Co. KG

Concurrent Session 1-11

14:00~15:30

Room D (Conference Room 1001)

Anterior Skull Base Surgery: Where are We Now ?Moderators: Emmanuel Jouanneau (*France*)Arturo Solares (*USA*)Antonio Gulino (*Italy*)**CS1-11-1 Minimally invasive surgery for anterior and middle skull base tumors**Keynote
Emmanuel Jouanneau
*Skull Base and Pituitary Center, Neurosurgical Department B / Hospices Civils de Lyon / University of Lyon, France***CS1-11-2 Endoscopic anterior skull base surgery**Shinichi Haruna
*Department of ENT, Head and Neck Surgery, Dokkyo Medical University, Japan***CS1-11-3 The endoscopic endonasal approach to anterior skull base diseases: Experience of skull base team at Verona University Hospital**Antonio Gulino
*Otolaryngology Department University of Verona, Italy***CS1-11-4 Anterior skull base surgery using combined endonasal transglabellar approach**Claude F. Litre
*Department of Neurosurgery, University Reims, France***CS1-11-5 The usefulness of the musculo-pericranial flaps in the reconstruction of the skull base**Kensuke Kiyokawa
*Department of Plastic Reconstructive and Maxillofacial Surgery, Kurume University School of Medicine, Japan***CS1-11-6 Treatment of craniofacial osteosarcoma: A multidisciplinary approach**Marton S.S. Koning
*Department of Neurology, Oestfold Hospital Trust, Norway***CS1-11-7 Influence of the surgical approach on development of post-traumatic stress disorder symptoms in skull base surgery**Ehab Shiban
Department of Neurosurgery, Technical University of Munich, Germany

Proffered Paper 1-3

16:00~17:10

Room D (Conference Room 1001)

Incorporation of Futuristic Simulation In Preoperative EvaluationModerators: Ian J. Witterick (*Canada*)Amr N. Amr (*Germany*)Masahiko Wanibuchi (*Japan*)**PP1-3-1 " MeAV anatomie " a 3D display system for surgical simulation in cadaver study**Masahiro Kameda
Department of Neurological Surgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan

- PP1-3-2 A combined three-dimensional bone and soft-tissue model for skull base surgery**
Naoki Nishio
Department of Otorhinolaryngology, Nagoya University Graduate School of Medicine, Japan
- PP1-3-3 Autostereoscopic 3D neuronavigation to the sella**
Amr N. Amr
Neurosurgery, University of Mainz, Germany
- PP1-3-4 Usefulness of preoperative 3D simulation for skull base surgery**
Keisuke Shirotsuka
Department of Neurosurgery, Osaka City University, Japan
- PP1-3-5 3D simulation and neuronavigation for the surgery of paraclinoid aneurysm might contribute to the safe direct surgery and preserve the visual function**
Yutaka Mine
Department of Neurosurgery and Endovascular Surgery, Brain Nerve Center, Saiseikai Yokohamashi Tobu Hospital, Japan
- PP1-3-6 An innovative skull base surgical simulation using computer graphics by multimodal fusion imaging integrated time, space, and real**
Taichi Kin
Department of Neurosurgery, The University of Tokyo, Japan
- PP1-3-7 Skull base training by using a colored temporal bone model created by three-dimensional printing technology**
Masahiko Wanibuchi
Department of Neurosurgery, Sapporo Medical University School of Medicine, Japan

Proffered Paper 1-8

17:20~18:20

Room D (Conference Room 1001)

Significance of Facial Nerve Reconstruction/Facial Reanimation

Moderators: Mutsumi Okazaki (*Japan*)
Eduard Zverina (*Czech Republic*)
Jin Kim (*Korea*)

- PP1-8-1 Facial nerve reconstruction in vestibular schwannoma and lateral skull base surgery**
Eduard Zverina
Department of Otolaryngology and Head and Neck Surgery, 1st Faculty of Medicine, University Hospital Motol, Charles University Prague, Czech Republic / 3rd Faculty of Medicine, University Hospital Kralovske Vinohrady, Charles University in Prague, Czech Republic
- PP1-8-2 Descending hypoglossal-facial anastomosis for facial reanimation: Results in 18 patients**
Jian-Tao Liang
Department of Neurosurgery, University of Capital Medical, China
- PP1-8-3 Different pathogenesis makes different aspects of facial movement in chronic facial paralysis**
Nam-Gyu Ryu
University of Inje, Korea
- PP1-8-4 Timing & recovery of delayed facial palsy after vestibular schwannoma resection**
Ryojo Akagami
Division of Neurosurgery, University of British Columbia, Canada
- PP1-8-5 Botulinum toxin injection of both sides of the face to treat post-paralytic facial synkinesis**
Jin Kim
Department of Otolaryngology, University of Inje, Korea
- PP1-8-6 Thread lifting for drooping face as a new approach for chronic facial paralysis**
Jin Kim
Department of Otolaryngology, University of Inje, Korea

Concurrent Session 1-4

8:00~9:30

Room E (Conference Room 1002)

Pediatric Skull Base Surgery: Overcoming the Barriers**Moderators:** Ian J. Witterick (*Canada*)Hajime Arai (*Japan*)Say Ayala-Soriano (*UK*)

- CS1-4-1 Management of anterior cranial base meningoencephaloceles**
Keynote Ian J. Witterick
University of Toronto, Department of Otolaryngology-Head & Neck Surgery, Canada
- CS1-4-2 Congenital skull base lesions**
 Ken Kazahaya
Children's Hospital of Philadelphia, Division of Pediatric Otolaryngology, University of Pennsylvania, USA
- CS1-4-3 Bumpy calvarial deformity after cranial expansion**
 Shigeo Kyutoku
Department of Plastic Surgery, Nara City Hospital, Japan
- CS1-4-4 Posterior cranial distraction for the treatment of craniosynostosis**
 Yuzo Komuro
Teikyo University, Japan
- CS1-4-5 Anterior skull base endoscopic - assisted surgery of nonsyndromic hemispherical craniosynostosis in children**
 Albert Sufianov
FSBI "Federal Centre of Neurosurgery", Tyumen, Russia
- CS1-4-6 Surgical treatment of pediatric sarcomas in the skull base**
 Seiji Kishimoto
Department of Head and Neck Surgery, Kameda Medical Center, Japan
- CS1-4-7 Different onset pattern of pediatric blowout fractures with oculo-cardiac reflex**
 Masaaki Kosaka
Department of Plastic Surgery, International University of Health and Welfare Hospital, Japan
- CS1-4-8 A robust, Non-invasive MRI tractography method to describe the location and length of the optic radiations in children for pre-surgical planning**
 Say Ayala-Soriano
University College London, Institute of Child Health / Great Ormond Street Hospital / Department of Neurosurgery, Great Ormond Street Hospital / Department of Neuroimaging, Institute of Child Health, UK

Concurrent Session 1-8

11:20~12:40

Room E (Conference Room 1002)

Craniopharyngioma: Selection of the Optimum Approach**Moderators:** Khaled M. El-Bahy (*Egypt*)Kosaku Amano (*Japan*)Mirko Scagnet (*Italy*)

- CS1-8-1 Laminar terminalis as a corridor for retrochiasmatic craniopharyngiomas**
Keynote Khaled M. El-Bahy
Department of Neurosurgery, Ain Shams University, Egypt
- CS1-8-2 Surgical management of craniopharyngiomas: Results in 287 cases (1985 - 2015)**
 Kuniaki Tanahashi
Department of Neurosurgery, Duke University, USA
- CS1-8-3 Surgical strategy for craniopharyngioma**
 Kosaku Amano
Department of Neurosurgery, Tokyo Women's Medical University, Japan
- CS1-8-4 Hybrid microscopic-endoscopic surgery for craniopharyngioma**
 Tomotsugu Ichikawa
Department of Neurosurgery, Okayama University Graduate School of Medicine, Japan

- CS1-8-5 Craniopharyngioma: Skull base endoscopic treatment in pediatric age**
Mirko Scagnet
Neurosurgery Unit, Neuroscience Department Anna Meyer Children's Hospital, Italy
- CS1-8-6 Endoscopic endonasal approach for suprasellar craniopharyngiomas**
Shou Xuefei
Department of Neurosurgery, Fudan University, China

Main Session 1-5

14:00~15:30

Room E (Conference Room 1002)

Angiofibroma Management: Endoscopically And Surgically

Moderators: Carl H. Snyderman (USA)
Bing Zhou (China)
Ken Kazahaya (USA)

- MS1-5-1 Endoscopic management of giant angiofibromas**
Keynote Carl H. Snyderman
Department of Otolaryngology, University of Pittsburgh Medical Center, USA
- MS1-5-2 Craniofacial surgery for advanced juvenile nasopharyngeal angiofibromas with intracranial extension**
Seiji Kishimoto
Department of Head and Neck Surgery, Kameda Medical Center, Japan
- MS1-5-3 Multidisciplinary surgical approach for advanced juvenile nasopharyngeal angiofibroma with skull base and cavernous sinus extension**
Yoshihisa Kawano
Department of Neurosurgery, Tokyo Medical and Dental University, Japan
- MS1-5-4 Endoscopic surgery for dealing with juvenile angiofibroma**
Bing Zhou
Department of Otolaryngology – Head and Neck Surgery, Beijing Tongren Hospital, Capital Medical University, China
- MS1-5-5 Management of juvenile nasopharyngeal angiofibroma**
Ken Kazahaya
Children's Hospital of Philadelphia, Division of Pediatric Otolaryngology / University of Pennsylvania, Department of Otorhinolaryngology / Head and Neck Surgery, USA
- MS1-5-6 Surgical principles for the treatment of intracranially extending juvenile angiofibroma**
Alok Thakar
Department of Otolaryngology – Head and Neck Surgery, All India Institute of Medical Sciences, India
- MS1-5-7 Endoscopic endonasal surgery for juvenile nasopharyngeal angiofibroma -key points for smooth tumor resection-**
Nobuyoshi Otori
Department of Otorhinolaryngology, Jikei University School of Medicine. Japan

Proffered Paper 1-4

16:10~17:10

Room E (Conference Room 1002)

Various Trending Endoscopic Techniques

Moderators: Kazunori Arita (Japan)
Filippo F. Angileri (Italy)
Dipak R. Nayak (India)

- PP1-4-1 Withdrawn**
- PP1-4-2 Short term subjective and objective analysis of functional outcome of modified endoscopic Lothrop's procedure – our experience**
Dipak R. Nayak
Department of ENT-HNS, K.M.C, Manipal University, India

- PP1-4-3 Surgical anatomy for endoscopic endonasal approach to the ventrolateral skull base lesions**
Kenichi Oyama
Teikyo University School of Medicine / Department of Neurosurgery, Pituitary & Endoscopic Surgery Center, Japan
- PP1-4-4 Management of large and giant pituitary adenomas with suprasellar extensions**
Junko Matsuyama
Neurosurgery, Southern Tohoku General Hospital, Japan
- PP1-4-5 Otolaryngologist's review of transnasal endoscopic skull base procedures**
Myint Tun
Department of Otorhinolaryngology-Head and Neck Surgery, University of Medicine 2, Myanmar
- PP1-4-6 Comparison of endoscopic third ventriculostomy alone and combined with choroid plexus coagulation in infants younger than 1 year of age**
Khiredine A. Bouyoucef
Department of Neurosurgery - Frantz Fanon University Hospital of Blida, Algeria
- PP1-4-7 Development of a nasal corridor protection device**
Carl H. Snyderman
Department of Otolaryngology, University of Pittsburgh Medical Center, USA

Proffered Paper 1-9

17:20~18:20

Room E (Conference Room 1002)

Efficacy of Endoscopic Techniques for Tumors beyond Midline

Moderators: Kaoru Kurisu (*Japan*)
Regi Thomas (*India*)
Alessia Rubini (*Italy*)

- PP1-9-1 Endoscopic transpterygoid approach – an excellent surgical corridor**
Regi Thomas
Department of Otorhinolaryngology, Christian Medical College, India
- PP1-9-2 Endoscopic endonasal transpterygoid approach for non-vestibular schwannomas**
Hiroyoshi Akutsu
Department of Neurosurgery, University of Tsukuba, Japan
- PP1-9-3 The impact of vidian nerve anatomy on endoscopic middle fossa exposure**
Melissa M. Stamates
Section of Neurosurgery, University of Chicago, USA
- PP1-9-4 Transcanal endoscopic lateral skull base surgery: Initial experiences**
Alessia Rubini
Otolaryngology Department, University Hospital of Verona, Italy
- PP1-9-5 Endoscopic triportal approach for extracranial trigeminal schwannomas**
Yasunori Fujimoto
Department of Neurosurgery, Osaka University Graduate School of Medicine, Japan
- PP1-9-6 Endoscopic endonasal approach to orbital lesions - our experience**
Ramaswamy Balakrishnan
ENT-Head & Neck Surgery, Kasturba Medical College, Manipal University, India

Special Session 1-1

8:00~9:30

Room F (Conference Room 801-2)

Instructional Course (Gruppo Otologico)

- SS1-1-1 Malignancies of the temporal bone**
Gianluca Piras
Gruppo Otologico, Italy
- SS1-1-2 Management of Non Vascular Tumors of the Jugular Foramen**
Sampath Chandra Prasad Rao
Gruppo Otologico, Italy
- SS1-1-3 Refinements in TLA for VS**
Alessandra Russo
Gruppo Otologico, Italy
- SS1-1-4 Management of ICA in lateral skull base surgery**
Mario Sanna
Gruppo Otologico, Italy

Special Session 1-2

11:20~12:10

Room F (Conference Room 801-2)

Gruppo Otologico Session

- SS1-2-1 Management of petrous bone cholesteatomas**
Gianluca Piras
Gruppo Otologico, Italy
- SS1-2-2 The infratemporal fossa approaches: Evolution and indications**
Sampath Chandra Prasad Rao
Gruppo Otologico, Italy
- SS1-2-3 Management of tumors of the facial nerve**
Alessandra Russo
Gruppo Otologico, Italy
- SS1-2-4 Management of lesions of the petrous apex**
Mario Sanna
Gruppo Otologico, Italy

Concurrent Session 1-9

12:10~12:40

Room F (Conference Room 801-2)

Microvascular Decompression

Moderators: Toshiki Yoshimine (*Japan*)
Seung H. Lee (*Korea*)

- CS1-9-1 Microvascular decompression of trigeminal nerve root in patients with trigeminal neuralgia under 75 years**
Jamil Rzaev
Department of Neurosurgery, Federal Center of Neurosurgery, Russia
- CS1-9-2 Transtubular microvascular decompression for trigeminal neuralgia**
Alexander I. Evins
Department of Neurosurgery, Weill Cornell Medical College, USA
- CS1-9-3 Analysis of relationship between abnormal responses of intraoperative brainstem auditory evoked potential changes during microvascular decompression and immediate postoperative hearing complications**
Seung Hwan Lee
Department of Neurosurgery, Kyung Hee University, Korea

Concurrent Session 1-12

14:00~15:30

Room F (Conference Room 801-2)

Cutting Edge Approaches for Aneurysm Surgery

Moderators: Young-Min Han (*Korea*)
 Yoshiaki Shiokawa (*Japan*)
 Hidehito Kimura (*Japan*)

- CS1-12-1 Clinical usefulness of the orbito-pterional approach in aneurysm surgery**
Keynote Young-Min Han
Incheon St. Mary's Hospital, The Catholic University of Korea, Korea
- CS1-12-2 Surgery for the paraclinoid aneurysms**
 Shinsuke Irie
Department of Neurosurgery, Kushiro Kojinkai Memorial Hospital, Japan
- CS1-12-3 Technical considerations for safer and reliable direct surgery for paraclinoid aneurysms**
 Hidehito Kimura
Department of Neurosurgery, Kobe University Graduate School of Medicine, Japan
- CS1-12-4 Surgical management of ophthalmic aneurysm in solo neurosurgical practice**
 Hotetsu Shimamoto
Shimamoto Neurosurgical Clinic, Japan
- CS1-12-5 A case of giant thrombosed vertebral artery aneurysm successfully treated with combined transpetrosal approach**
 Hiroshi Takasuna
Department of Neurosurgery, St. Marianna University, School of Medicine, Japan
- CS1-12-6 Transcondylar approach for large VA-PICA aneurysm**
 Masahiko Wanibuchi
Department of Neurosurgery, Sapporo Medical University School of Medicine, Japan

Proffered Paper 1-5

16:00~17:10

Room F (Conference Room 801-2)

Petroclival Lesions : Advanced Treatment Management

Moderators: Yuichiro Tanaka (*Japan*)
 Christian Matula (*Austria*)
 Young-Min Han (*Korea*)

- PP1-5-1 Preservation of middle cerebral vein during the anterior transpetrosal approach**
 Shunsuke Shibao
Department of Neurosurgery, Keio University School of Medicine, Japan
- PP1-5-2 Preoperative evaluation of enlarged occipital and marginal sinuses**
 Shusaku Noro
Department of Neurosurgery, Nakamura Memorial Hospital, Japan
- PP1-5-3 Evaluation of bony structure around the petrous apex by 3D-CTA**
 Keiji Hara
Department of Neurosurgery, Nakamura Memorial Hospital, Japan
- PP1-5-4 Technique nuance in surgical management of petroclival meningiomas**
 Xinru Xiao
Department of Neurosurgery, Beijing Tiantan Hospital, Capital Medical University, China
- PP1-5-5 Extension of the retrosigmoid approach to large cerebellopontine angle tumors**
 Young-Min Han
Department of Neurosurgery, Incheon St. Mary's Hospital, The Catholic University of Korea, Korea
- PP1-5-6 Retrosigmoid suprajugular approach to jugular foramen neuromas**
 Ken Matsushima
Department of Neurosurgery, Tokyo Medical University, Japan / Department of Neurological Surgery, University of Florida, USA

Special Session 1-4

17:20~18:20

Room F (Conference Room 801-2)

3D Endoscopy Session

Moderators: Naokatsu Saeki (*Japan*)
Ashish Suri (*India*)

- SS1-4-1 3D endoscopy to the sella and beyond**
Alessandro Ducati
Section of Neurosurgery, University of Torino, Italy
- SS1-4-2 3D endoscopic transnasal transsphenoidal pituitary surgery**
Albert Sufianov
Department of Neurosurgery, Federal Center of Neurosurgery, Russia
- SS1-4-3 3D endoscopic surgery**
Jörg Schipper
Department of Otorhinolaryngology, University Hospital Düsseldorf, Germany
- SS1-4-4 3D endoscopic surgery**
Diego Mazzatenta
Centre of Pituitary and Skullbase Endoscopic Surgery, Institute of Neurological Sciences of Bologna, Italy

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