

Session / Subject Number	Session Title/Subject Title	Chair/Lecturer	Department/Office/City/Prefecture/Country
Thursday, October 12 (13:00–13:50) Room A: Century Hall, 2F, 1Bidg, Nagoya Congress Center			
Academical Lecture 1 (Lecture by English speaker)	Pediatric Neurosurgery: Entering a brave new world	Chair: Isao Date	Department of Neurosurgery, Okayama University Graduate School of Medicine, Okayama, Japan
1A-AL1	Pediatric Neurosurgery: Entering a brave new world	Lecturer: James T. Rutka	Department of Surgery, University of Toronto, Canada
Thursday, October 12 (9:00–10:10) Room B: Shirotori Hall (North), 1F, 4Bidg, Nagoya Congress Center			
Symposium 01 (English Session)	Acute ischemic stroke caused by an intracranial arterial occlusion –application range and treatment outcome–	Chair: Waro Taki	Koseikai Takeda Hospital, Kyoto, Japan
		Chair: Yuuji Matsumaru	Department of Neurosurgery, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan
1B-S01-1	Workflow in acute stroke: how to optimize it in light of time is brain	Lecturer: Mayank Goyal	Department of Radiology and Clinical Neurosciences, University of Calgary / Department of Diagnostic Imaging, Seaman Family MR Research Centre, Calgary, Canada
1B-S01-2	Current status of endovascular therapy for acute cerebral large vessel occlusion in Japan	Lecturer: Shinichi Yoshimura	Department of Neurosurgery, Hyogo College of Medicine, Hyogo, Japan
1B-S01-3	Acute revascularization utilizing thrombectomy and/or thrombolysis in patients with emergent large vessel occlusion	Lecturer: Teruyuki Hirano	Department of Stroke and Cerebrovascular Medicine, Kyorin University Faculty of Medicine, Tokyo, Japan
1B-S01-4	A study of the current situation for acute ischemic stroke in Japan: A national data linkage between Emergency Medical Services Data and J-ASPECT Data	Lecturer: Ai Kurogi	Department of Neurosurgery, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan
Thursday, October 12 (10:10–11:30) Room B: Shirotori Hall (North), 1F, 4Bidg, Nagoya Congress Center			
Symposium 02	Simultaneous interpretation (Japanese → English)	Chair: Hirotooshi Sano	Department of Neurosurgery, Shinkawabashi Hospital, Kawasaki, Japan
		Chair: Nobuyuki Sakai	Department of Neurosurgery, Kobe City Medical Center General Hospital, Kobe, Japan
1B-S02-1	Flow Diversion for Posterior Circulation Aneurysms	Lecturer: Adnan H. Siddiqui	Neurosurgery, Neuroendovascular Fellowship Program, State University of New York, NY, USA
1B-S02-2	Direct open surgical therapeutic strategy in difficult cerebral aneurysm—the importance of wide surgical field and bypass usage—	Lecturer: Tomohiro Inoue	Department of Neurosurgery, Kanto Medical Center, NTT EC, Tokyo, Japan
1B-S02-3	Strategy and results of the treatment of difficult cerebral aneurysms from the endovascular point of view	Lecturer: Akio Hyoudou	Department of Neurosurgery, Dokkyo Medical University Koshigaya Hospital, Saitama, Japan
1B-S02-4	Tailor-made Surgery for giant thrombosed aneurysm using modern technology	Lecturer: Tohru Mizutani	Department of Neurosurgery, Showa University School of Medicine, Tokyo, Japan
Thursday, October 12 (12:50–15:20) Room B: Shirotori Hall (North), 1F, 4Bidg, Nagoya Congress Center			
Symposium 03 (English Session)	Integration of molecular pathology, functional mapping, fiber anatomy for glioma surgery	Chair: Toshihiro Kumabe	Department of Neurosurgery, Kitasato University School of Medicine, Kanagawa, Japan
		Chair: Ryo Nishikawa	Department of Neurosurgery, Saitama Medical University, International Medical Center, Saitama, Japan
		Chair: Toshihiko Kuroiwa	Department of Neurosurgery & Endovascular Neurosurgery, Osaka Medical College, Takatsuki, Osaka, Japan
1B-S03-1	Practical approach to WHO 2016 integrated glioma diagnoses	Lecturer: Arie Perry	Pathology and Neurological Surgery, Department of Pathology, University of California, San Francisco, CA, USA
1B-S03-2	Intraoperative extensive functional mapping allows extending resection and preserving full patient integrity in low-grade glioma (LGG) surgery	Lecturer: Lorenzo Bello	Neurosurgical Oncology Unit, Humanitas Neuro and Cancer Center, Humanitas Research Hospital, Università degli Studi di Milano, IRCCS, Milano, Italy
1B-S03-3	Tract Anatomy for Glioma Surgery	Lecturer: Marco Catani	Neuroanatomy & Psychiatry, the NatBrainLab, Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, UK
1B-S03-4	'You Can See A Lot Just By Looking' – Neurotechnology and Glioma Surgery	Lecturer: Greg Sorensen	IMRIS Inc., USA
1B-S03-5	Development of radiomics analysis system for large scale brain tumor image analysis	Lecturer: Manabu Kinoshita	Department of Neurosurgery, Osaka International Cancer Institute, Osaka, Japan
1B-S03-6	Mathematic model of tumor development and malignant transformation in WHO grade II diffuse glioma	Lecturer: Kosuke Aoki	Department of Neurosurgery, Nagoya University School of Medicine, Nagoya, Japan
1B-S03-7	Goal-setting of extent of resection on the basis of molecular status in glioma surgery	Lecturer: Kuniaki Saito	Department of Neurosurgery, Kyorin University Faculty of Medicine, Tokyo, Japan
1B-S03-8	Application of graph theory in Neurooncology–New concepts in brain mapping	Lecturer: Shogo Ishiuchi	Department of Neurosurgery, Faculty of Medicine, University of the Ryukyus, Okinawa, Japan
1B-S03-9	Development of decision-making system by integration of information for artificialintelligent surgery	Lecturer: Yoshihiro Muragaki	Department of Neurosurgery, Tokyo Women's Medical University, Tokyo, Japan
1B-S03-10	Maximal resection of frontal glioma corresponding to verbal fluency	Lecturer: Masashi Kinoshita	Department of Neurosurgery, Kanazawa University, Kanazawa, Japan

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Thursday, October 12 (9:00–11:30) Room C: Shirotori Hall (South), 1F, 4Bidg, Nagoya Congress Center			
Symposium 04 <i>(English Session)</i>	Skull base tumors: craniotomy, endoscope and radiotherapy for functional preservation	Chair: Kenji Ohata	Department of Neurosurgery, Osaka City University Graduate School of Medicine, Osaka, Japan
		Chair: Takakazu Kawamata	Department of Neurosurgery, Tokyo Women's Medical University, Tokyo, Japan
		Chair: Yoshimasa Mori	Department of Radiology, Aichi Medical University, Nagakute, Aichi, Japan
1C-S04-1	Exposure of thalamic, hypothalamic and midbrain lesions via the frontobasal interhemispheric approach	Lecturer: Helmut Bertalanffy	Vascular Neurosurgery, International Neuroscience Institute, Hannover, Germany
1C-S04-2	Strategies for skull base tumors excision: role of craniotomy in the era of minimally invasive skull base surgeries	Lecturer: Kiyoshi Saito	Department of Neurosurgery, Fukushima Medical University, Fukushima, Japan
1C-S04-3	Current Trends in Surgery of Suprasellar Lesions	Lecturer: Bhawani Shanker Sharma	Department of Neurosurgery and Gamma Knife, Neurosciences Centre, All India Institute of Medical Sciences, New Delhi, India
1C-S04-4	Anatomic consideration for the surgical boundaries of endoscopic endonasal cranial base surgery	Lecturer: Kenichi Oyama	Department of Neurosurgery, Teikyo University School of Medicine, Tokyo, Japan
1C-S04-5	Skull base tumors: multimodal and multipotential strategies for functional preservation	Lecturer: Sebastien Froelich	Department of Neurosurgery, Lariboisière Hospital, Paris-Diderot University, Paris, France
1C-S04-6	Radical removal for skull base tumors via the microscopic and endoscopic skull base approach	Lecturer: Takeo Goto	Department of Neurosurgery, Osaka City University Graduate School of Medicine, Osaka, Japan
1C-S04-7	High-precision external-beam radiotherapy for skull base tumors intending to preserve cranial nerve functions	Lecturer: Takashi Mizowaki	Department of Radiotherapy, Graduate School of Medicine and Faculty of Medicine Kyoto University, Kyoto, Japan
1C-S04-8	Gamma- and cyber-knife for skull base benign tumors: tumor control, adverse effects and comparison between these modalities	Lecturer: Masahito Kobayashi	Department of Neurosurgery, Saitama Medical University Hospital, Saitama, Japan
Thursday, October 12 (11:40–12:40) Room C: Shirotori Hall (South), 1F, 4Bidg, Nagoya Congress Center			
Sponsored by MSD K.K.			
Luncheon Seminar 1-2 <i>(Lecture by English speaker)</i>	Classification of Childhood Brain Tumors in the Molecular Era	Chair: Takamasa Kayama	Department of Advanced Cancer Science, Yamagata University Faculty of Medicine, Yamagata, Japan
LS1-2	Classification of Childhood Brain Tumors in the Molecular Era	Lecturer: Michael D. Taylor	Division of Neurosurgery, Program in Developmental and Stem Cell Biology, The Hospital for Sick Children, Toronto, Ontario, Canada
Thursday, October 12 (14:00–15:20) Room C: Shirotori Hall (South), 1F, 4Bidg, Nagoya Congress Center			
Symposium 06 <i>(English Session)</i>	Basic and clinical research on moyamoya disease after RNF213 discovery	Chair: Susumu Miyamoto	Department of Neurosurgery, Graduate School of Medicine Kyoto University, Kyoto, Japan
		Chair: Teiji Tominaga	Department of Neurosurgery, Tohoku University Graduate School of Medicine, Sendai, Japan
1C-S06-1	Adult Moyamoya disease : Where are we now?- Update on clinical and research topics -	Lecturer: Jeong Eun Kim	Department of Neurosurgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
1C-S06-2	Pathophysiology and surgical treatment of European moyamoya disease	Lecturer: Peter Vajkoczy	Charité-Universitätsmedizin Berlin, Campus Virchow-Klinikum, Neurochirurgische Klinik der Charité, Berlin, Germany
1C-S06-3	Current trends and issues of genetic analysis of moyamoya disease	Lecturer: Satoru Miyawaki	Department of Neurosurgery, The University of Tokyo, Tokyo, Japan
1C-S06-4	Significance of RNF213 for the diagnosis of moyamoya disease and related disorders	Lecturer: Yohei Mineharu	Department of Neurosurgery, Graduate School of Medicine and Faculty of Medicine Kyoto University, Kyoto, Japan
1C-S06-5	Current status and limitation of the basic research of moyamoya disease using RNF213 mutant mice; Prospect for the future clinical application	Lecturer: Miki Fujimura	Department of Neurosurgery, Tohoku University Graduate School of Medicine, Sendai, Japan
Thursday, October 12 (11:40–12:40) Room D: Reception Hall (East), 4F, 1Bidg, Nagoya Congress Center			
Sponsored by IMRIS			
Luncheon Seminar 1-3 <i>(Lecture by English speaker)</i>	Intra-operative MRI – The Standard for Neurosurgery for Today? And Tomorrow?	Chair: Akira Matsumura	Department of Neurosurgery, Institute of Clinical Medicine, University of Tsukuba, Tsukuba, Japan
LS1-3	Intra-operative MRI – The Standard for Neurosurgery for Today? And Tomorrow?	Lecturer: Greg Sorensen	IMRIS Inc., USA

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Thursday, October 12 (9:00–11:30) Room E: Reception Hall (West), 4F, 1Bidg, Nagoya Congress Center			
Symposium 07 (English Session)	Novel treatments for gliomas (immunotherapy, chemotherapy and radiotherapy)	Chair: Yasuo Iwadate	Department of Neurological Surgery, Chiba University School of Medicine, Chiba, Japan
		Chair: Motoo Nagane	Department of Neurosurgery, Kyorin University Faculty of Medicine, Tokyo, Japan
		Chair: Naoya Hashimoto	Department of Neurosurgery, Kyoto Prefectural University of Medicine, Kyoto, Japan
1E-S07-1	Challenges in Immunotherapy for Brain Tumors	Lecturer: Hideho Okada	Brain Tumor Immunotherapy Center, Department of Neurological Surgery, University of California San Francisco / Parker Institute for Cancer Immunotherapy
1E-S07-2	The New WHO Classification of Gliomas: Therapeutic Implications for Routine Practice and Clinical Trials	Lecturer: Antonio M. Omuro	Department of Neurology, Memorial Sloan Kettering Cancer Center, NY, USA
1E-S07-3	Developments in modern radiation therapy for gliomas	Lecturer: Yuta Shibamoto	Department of Radiology, Graduate School of Medical Sciences, Nagoya City University, Nagoya, Japan
1E-S07-4	Immunotherapy for malignant glioma in children: problems and future direction	Lecturer: Naoki Kagawa	Department of Neurosurgery, Osaka University Graduate School of Medicine, Osaka, Japan
1E-S07-5	A clinical trial of immunotherapy using glioma stem cells against malignant glioma	Lecturer: Yasuharu Akasaki	Department of Neurosurgery, The Jikei University School of Medicine, Tokyo, Japan
1E-S07-6	Adoptive immunotherapy using lymphokine-activated alpha beta T-cells improves Temozolomide-induced lymphopenia in patients with glioma	Lecturer: Yonehiro Kanemura	Department of Neurosurgery, Osaka National Hospital, National Hospital Organization, Osaka, Japan
1E-S07-7	Treatment of refractory and recurrent PCNSL by anti-PD-1 antibody; Analysis of treatment mechanism and proposal of biopsy method	Lecturer: Shinichi Miyatake	Department of Neurosurgery and Endovascular Neurosurgery, Osaka Medical College, Takatsuki, Osaka, Japan
1E-S07-8	Tailor-made setting of radiation doses owing to the MGMT gene promoter methylation for the treatment of IDH-wildtype primary glioblastoma	Lecturer: Toshihiko Iuchi	Divisions of Neurological Surgery, Chiba Cancer Center, Chiba, Japan
1E-S07-9	Novel therapeutic strategy in IDH1 mutant gliomas targeted for deregulated NAD+ metabolism	Lecturer: Kensuke Tateishi	Department of Neurosurgery, Yokohama City University School of Medicine, Kanagawa, Japan
1E-S07-10	JCCG Clinical studies for pediatric intracranial ependymoma – A retrospective study and a prospective phase II trial	Lecturer: Tetsuya Yamamoto	Department of Neurosurgery, Yokohama City University Graduate School of Medicine, Kanagawa, Japan
Thursday, October 12 (11:40–12:40) Room E: Reception Hall (West), 4F, 1Bidg, Nagoya Congress Center			
Sponsored by Chugai Pharmaceutical Co., Ltd.			
Luncheon Seminar 1-4 (Lecture by English speaker)	Integrated molecular pathology diagnoses of gliomas in the WHO 2016 classification scheme	Chair: Atsushi Natsume	Department of Neurosurgery Nagoya University, Graduate School of Medicine, Nagoya, Japan
LS1-4	Integrated molecular pathology diagnoses of gliomas in the WHO 2016 classification scheme	Lecturer: Arie Perry	Pathology and Neurological Surgery, Departments of Pathology, University of California San Francisco, CA, USA
Thursday, October 12 (12:50–13:50) Room E: Reception Hall (West), 4F, 1Bidg, Nagoya Congress Center			
Educational Lecture 1 (Lecture by English speaker)	Parcellation of Human Cerebral Cortex	Chair: Nobuhiro Mikuni	Department of Neurosurgery, Sapporo Medical University School of Medicine, Sapporo, Japan
1E-EL1	Parcellation of Human Cerebral Cortex	Lecturer: David C. Van Essen	Neurobiology, Department of Neuroscience, Washington University School of Medicine, St. Louis, MO, USA
Thursday, October 12 (13:50–15:20) Room E: Reception Hall (West), 4F, 1Bidg, Nagoya Congress Center			
Symposium 08 (English Session)	Novel approaches for localization of epileptogenic zone	Chair: Taketoshi Maehara	Department of Neurosurgery, Tokyo Medical and Dental University, Tokyo, Japan
		Chair: Takeharu Kunieda	Department of Neurosurgery, Ehime University Graduate School of Medicine, Ehime, Japan
1E-S08-1	The impact of robotic SEEG in the assessment of patients for epilepsy surgery	Lecturer: David Sandeman	Southmead Hospital in Bristol, UK
1E-S08-2	Novel surrogate biomarkers of epileptogenicity using wideband ECoG analyses	Lecturer: Riki Matsumoto	Department of Clinical Neurophysiology, Graduate School of Medicine Kyoto University, Kyoto, Japan
1E-S08-3	Intracranial EEG analysis including very high frequency oscillations (VHFO)	Lecturer: Naotaka Usui	Department of Neurosurgery, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan
1E-S08-4	Hub analysis using resting-state fMRI in patients with focal epilepsy and surgical outcomes	Lecturer: Satoshi Maesawa	Department of Neurosurgery Nagoya University, Graduate School of Medicine, Nagoya, Japan
1E-S08-5	Development of diagnosis tool using artificial intelligence and cross-frequency coupling	Lecturer: Takufumi Yanagisawa	Endowed Research Department of Clinical Neuroengineering Global Center for Medical Engineering and Informatics, Osaka University, Osaka, Japan
1E-S08-6	Detection of epileptogenic lesion using PET multitracers	Lecturer: Motoki Inaji	Department of Neurosurgery, Tokyo Medical and Dental University, Tokyo, Japan

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Thursday, October 12 (9:00–10:10) Room H: International Conference Rooms, 3F, 3Bidg, Nagoya Congress Center			
Symposium 09 (English Session)	Critical care management of acute spinal cord injury	Chair: Izumi Koyanagi	Hokkaido Neurosurgical Memorial Hospital, Sapporo, Hokkaido, Japan
		Chair: Shinsuke Suzuki	Department of Neurosurgery, National Hospital Organization, Sendai Medical Center, Sendai, Japan
1H-S09-1	Spinal Trauma: A Neurosurgeon's Perspective	Lecturer: Howard J. Ginsberg	Division of Neurosurgery, University of Toronto, St. Michael's Hospital, Toronto, Canada
1H-S09-2	What the neurosurgeon should do about spinal trauma, Can Japanese neurosurgeons work seriously on spinal trauma?	Lecturer: Shinsuke Suzuki	Department of Neurosurgery, National Hospital Organization, Sendai Medical Center, Sendai, Japan
1H-S09-3	Characteristics of Craniovertebral Junction Injury in Elderly Patients	Lecturer: Gakuji Gondou	Department of Neurosurgery, Shonankamakura General Hospital, Kamakura, Kanagawa, Japan
1H-S09-4	Surgical outcomes of short versus long-segment posterior fixation for unstable thoracolumbar junction fractures	Lecturer: Shoichi Haimoto	Department of Neurosurgery Nagoya University, Graduate School of Medicine, Nagoya, Japan
1H-S09-5	Management of acute spinal cord injury in patients with severe multiple traumas; Analysis of 36 cases	Lecturer: Sho Fujiwara	Department of Neurosurgery, Osaka University Graduate School of Medicine, Osaka, Japan
Thursday, October 12 (10:10–11:30) Room H: International Conference Rooms, 3F, 3Bidg, Nagoya Congress Center			
Symposium 10 (English Session)	Surgical strategy for spinal tumor; How can we reduce surgical complications?	Chair: Kazutoshi Hida	Sapporo Azabu Neurosurgical Hospital, Sapporo, Hokkaido, Japan
		Chair: Akira Matsumura	Department of Neurosurgery, Faculty of Medicine, University of Tsukuba, Tsukuba, Ibaraki, Japan
1H-S10-1	Video techniques in spinal tumor	Lecturer: Christopher P. Ames	Clinical Neurological Surgery and Orthopaedic Surgery, University of California, San Francisco, CA, USA
1H-S10-2	Surgical Management of Spinal Intramedullary Tumors: Radical and Safe Strategy for Benign Tumors	Lecturer: Toshihiro Takami	Department of Neurosurgery, Osaka City University Graduate School of Medicine, Osaka, Japan
1H-S10-3	Strategies to improve neurological safety and security of surgery for spinal intramedullary tumors	Lecturer: Yu-ichiro Ohnishi	Department of Neurosurgery, Osaka University Graduate School of Medicine, Osaka, Japan
1H-S10-4	Fluorescence guided resection of Spinal Cord Intramedullary Tumors	Lecturer: Toshiki Endo	Department of Neurosurgery, Kohnan Hospital, Sendai, Miyagi, Japan
1H-S10-5	Surgical strategy for cervical dumbbell tumors to avoid complications	Lecturer: Taku Sugawara	Departments of Spinal Surgery and Neurosurgery, Research Institute for Brain and Blood Vessels-Akita, Akita, Japan
1H-S10-6	Surgical treatment for metastatic spinal tumor	Lecturer: Kaoru Eguchi	Department of Neurosurgery, Nagoya University Hospital, Nagoya, Japan
Thursday, October 12 (14:00–15:20) Room H: International Conference Rooms, 3F, 3Bidg, Nagoya Congress Center			
Symposium 11 (English Session)	Revolutionizing neurosurgery with novel techniques using endoscope and exoscope	Chair: Kiyoshi Saito	Department of Neurosurgery, Fukushima Medical University, Fukushima, Japan
		Chair: Yukihiro Fujii	Department of Neurosurgery, Brain Research Institute, University of Niigata, Niigata, Japan
1H-S11-1	The paramedian infratentorial supracerebellar keyhole approach (PISKA) for endoscopic treatment of pineal region pathologies	Lecturer: Nikolai J. Hopf	Center for Endoscopic and Minimal Invasive Neurosurgery, NeuroChirurgicum, Stuttgart, Germany / Center for Endoscopic and Minimal Invasive Neurosurgery, ENDOMIN Center Hirslanden St.Gallen, Zurich, Switzerland
1H-S11-2	Review of the exoscopic systems and future prospects in neurosurgery	Lecturer: Kenichi Nishiyama	Department of Neurosurgery, Niigata Medical Center Hospital, Niigata, Japan
1H-S11-3	The efficacy of endoscopic removal surgery for brainstem cavernoma	Lecturer: Kazuhito Takeuchi	Department of Neurosurgery, Graduate School of Medicine, Nagoya University, Nagoya, Japan
1H-S11-4	Direct clipping for intracranial aneurysm by 3D exoscope; Might 3D exoscope replace the microscope?	Lecturer: Yutaka Mine	Department of Neurosurgery, Saiseikai Yokohamashi Tobu Hospital, Yokohama, Kanagawa, Japan
1H-S11-5	Indication of endoscopic surgery with advanced technology for intraparenchymal and ventricular tumors	Lecturer: Yoshiki Arakawa	Department of Neurosurgery, Graduate School of Medicine and Faculty of Medicine Kyoto University, Kyoto, Japan
1H-S11-6	Current roles and future prospects of exoscope in neurosurgery	Lecturer: Yugo Kishida	Center for Neuroendoscopic Surgery, Department of Neurosurgery Nagoya Daini Red Cross Hospital, Nagoya, Japan

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Friday, October 13 (16:30–18:55) Room A: Century Hall, 2F, 1Bldg, Nagoya Congress Center			
Special Program 4–2 <i>(Lecture by English speaker)</i>		Chair: Jyun Yoshida	Emeritus Professor of Nagoya University, Nagoya, Japan / Honorary President of Sakura General Hospital, Aichi, Japan
		Chair: Tatsuya Kondou	Pharmaceuticals and Medical Devices Agency, Japan
		Chair: Michiyasu Suzuki	Department of Neurosurgery, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan
2A-SP4-2-6	Future of Neurosurgery and the Importance of International Communication	Lecturer: James T. Rutka	Department of Surgery, University of Toronto, Canada
Friday, October 13 (9:00–11:50) Room B: Shirotori Hall (North), 1F, 4Bldg, Nagoya Congress Center			
Symposium 12 <i>(English Session)</i>	Brain AVM –Treatment outcome in the post ARUBA era–	Chair: Toshinori Hasegawa	Department of Neurosurgery, Komaki City Hospital, Aichi, Japan
		Chair: Kazuhiko Nozaki	Department of Neurosurgery, Shiga University of Medical Science, Otsu, Shiga, Japan
		Chair: Tomoaki Terada	Department of Neurosurgery, Showa University Fujigaoka Hospital, Kanagawa, Japan
2B-S12-1	AVM surgery without embolization	Lecturer: Michael K Morgan AO	Cerebrovascular Neurosurgery, Macquarie University Hospital, Australia
2B-S12-2	Curative Embolization of AVMs	Lecturer: René Chapot	Department of Endovascular Therapy and Neuroradiology, Krupp Krankenhaus, Essen, Germany / University Hospital of Lausanne, Switzerland
2B-S12-3	Tips, bases, and pitfalls in multimodal treatment era	Lecturer: Hiroki Kurita	Department of Neurosurgery, Saitama Medical University, International Medical Center, Saitama, Japan
2B-S12-4	Surgical treatment of Brain AVMs in the post ARUBA era	Lecturer: Yasushi Takagi	Department of Neurosurgery, Graduate School of Medicine and Faculty of Medicine Kyoto University, Kyoto, Japan
2B-S12-5	Endovascular treatment of brain AVMs using Onyx	Lecturer: Yasunari Niimi	Department of Neuroendovascular Therapy, St. Luke's International Hospital, Tokyo, Japan
2B-S12-6	Management of brain arteriovenous malformation –review of the literature	Lecturer: Srivatanakul Kittipong	Department of Neurosurgery, Tokai University School of Medicine, Kanagawa, Japan
2B-S12-7	The role of embolization for cerebral arteriovenous malformations	Lecturer: Shigeru Miyachi	Department of Neurosurgery and Neuroendovascular Therapy, Aichi Medical University, Nagakute, Aichi, Japan
2B-S12-8	Role of Gamma Knife radiosurgery for brain arteriovenous malformations in the post ARUBA era	Lecturer: Hidefumi Joukura	Jiro Suzuki Kinen Gamma House, Furukawa Seiryō Hospital, Miyagi, Japan
2B-S12-9	Future perspective of treatment for Arteriovenous Malformations in the post ARUBA era based upon outcomes of ruptured cases	Lecturer: Daisuke Maruyama	Department of Neurosurgery, National Cerebral and Cardiovascular Center, Osaka, Japan
Friday, October 13 (13:50–16:20) Room B: Shirotori Hall (North), 1F, 4Bldg, Nagoya Congress Center			
Symposium 13 <i>(English Session)</i>	Dawn of post–genome era in brain tumors	Chair: Keisuke Ueki	Department of Neurologic Surgery, Dokkyo Medical University, Tochigi, Japan
		Chair: Yuichi Hirose	Department of Neurosurgery, Fijita Health University School of Medicine, Toyooka, Aichi, Japan
		Chair: Koichi Ichimura	Division of Brain Tumor Translational Research, National Cancer Center Research Institute, Tokyo, Japan
2B-S13-1	The molecular genetics of malignant pediatric brain tumor	Lecturer: Michael D. Taylor	Department of Neurosurgery, Program in Developmental and Stem Cell Biology, The Hospital for Sick Children, Toronto, Ontario, Canada
2B-S13-2	Incorporating Gene Sequencing into Personalized Management of Gliomas	Lecturer: Antonio M. Omuro	Division of Neurology, Memorial Sloan Kettering Cancer Center, NY, USA
2B-S13-3	Analysis of epigenetic signatures in glioma and its clinical application	Lecturer: Yutaka Kondo	Center for Neural Disease and Cancer, Nagoya University, Graduate School of Medicine, Nagoya, Japan
2B-S13-4	Clinical genome sequencing of pediatric brain tumors	Lecturer: Yonehiro Kanemura	Department of Neurosurgery, National Hospital Organization Osaka National Hospital, Osaka, Japan
2B-S13-5	Glioma classification based on WHO 2016 criteria and its technical pitfalls	Lecturer: Koji Yoshimoto	Department of Neurosurgery, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan
2B-S13-6	Integrated and comparative multi–omics analysis of primary and recurrent glioma and its clinical application	Lecturer: Akitake Mukasa	Department of Neurosurgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan
2B-S13-7	MRI based radiogenomic analysis for lower grade gliomas	Lecturer: Hideyuki Arita	Department of Neurosurgery, Osaka University Graduate School of Medicine, Osaka, Japan
2B-S13-8	Epigenetic treatment strategy for IDH–wild type grade III glioma	Lecturer: Fumiharu Ohka	Department of Neurosurgery Nagoya University, Graduate School of Medicine, Nagoya, Japan
2B-S13-9	Downregulation of enhancer associated RET finger protein overcomes chemoresistance in brain tumors	Lecturer: Masaki Hirano	Department of Neurosurgery Nagoya University, Graduate School of Medicine, Nagoya, Japan
2B-S13-10	Targeted sequencing of driver gene mutations in skull base meningiomas	Lecturer: Atsushi Okano	Department of Neurosurgery, The University of Tokyo, Tokyo, Japan
2B-S13-11	Gli3 induces neuronal differentiation in WNT– and SHH–activated medulloblastoma	Lecturer: Manabu Natsumeda	Department of Neurosurgery, Brain Research Institute, University of Niigata, Niigata, Japan

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Symposium 14 <i>(English Session)</i>	Indication and optimal timing for epilepsy surgery	Chair: Nobukazu Nakasato	Department of Epileptology, Tohoku University Graduate School of Medicine, Sendai, Japan
		Chair: Haruhiko Kishima	Department of Neurosurgery, Osaka University Graduate School of Medicine, Osaka, Japan
2C-S14-1	Newer Endoscopic Applications of Epilepsy Surgery: Hemispherotomy, corpus callosotomy, commissurotomy & posterior quadrant disconnection	Lecturer: P. Sarat Chandra	Department of Neurosurgery, All India Institute of Medical Sciences, New Delhi, India
2C-S14-2	Indication and optimal timing for epilepsy surgery – from a standpoint of epilepsy surgeon –	Lecturer: Kensuke Kawai	Department of Neurosurgery, Jichi Medical University, Tochigi, Japan
2C-S14-3	Epilepsy surgery; Indication and timing; Psychiatrists' perspective	Lecturer: Kousuke Kanemoto	Department of Psychiatry, Aichi Medical University, Nagakute, Aichi, Japan
2C-S14-4	Indication and optimal timing for epilepsy surgery: from Neurologist	Lecturer: Kiyohito Terada	NHO Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan
2C-S14-5	Indication and optimal timing for epilepsy surgery from the point of view of pediatrician	Lecturer: Kenji Sugai	Epilepsy Center / Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan
2C-S14-6	Indication and optimal timing for stereotactic radiofrequency thermocoagulation of hypothalamic hamartoma	Lecturer: Hiroshi Shirozu	Department of Neurosurgery, Nishi-Niigata Chuo National Hospital, Niigata, Japan
2C-S14-7	Early indication of corpus callosotomy for long-term seizure remission in pediatric patients with drug-resistant epilepsy	Lecturer: Masaki Iwasaki	Department of Neurosurgery, National Center Hospital of Neurology and Psychiatry, Tokyo, Japan
2C-S14-8	Indications and optimal timing for vagus nerve stimulation	Lecturer: Takamichi Yamamoto	Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital, Shizuoka, Japan
Friday, October 13 (12:00–13:00) Room D: Reception Hall (East), 4F, 1Bidg, Nagoya Congress Center			
Sponsored by Accuray Japan K.K.			
Luncheon Seminar 2-3 <i>(Lecture by English speaker)</i>	Cyberknife Radiosurgery for Spinal Cord Arteriovenous Malformations	Chair: Yukihiro Fujii	Department of Neurosurgery, Brain Research Institute, Niigata University, Niigata, Japan
LS2-3	Cyberknife Radiosurgery for Spinal Cord Arteriovenous Malformations	Lecturer: Steven D. Chang	Otolaryngology – Head and Neck, Neurosurgery, Stanford University School of Medicine, Stanford, CA, USA
Friday, October 13 (9:00–9:40) Room E: Reception Hall (West), 4F, 1Bidg, Nagoya Congress Center			
Educational Lecture 2 <i>(Lecture by English speaker)</i>	Preventing Spinal Hardware Infections	Chair: Hideaki Iizuka	Department of Neurosurgery, Kanazawa Medical University, Kanazawa, Japan
2E-EL2	Preventing Spinal Hardware Infections	Lecturer: Howard J. Ginsberg	Division of Neurosurgery, University of Toronto, St. Michael's Hospital, Toronto, Canada
Friday, October 13 (9:40–11:00) Room E: Reception Hall (West), 4F, 1Bidg, Nagoya Congress Center			
Symposium 15	Simultaneous interpretation (Japanese → English)	Chair: Yasuyuki Miyoshi	Department of Neurosurgery, Kawasaki Medical School General Medical Center, Okayama, Japan
		Chair: Masakazu Takayasu	Department of Neurological Surgery, Aichi Medical University School of Medicine, Nagakute, Aichi, Japan
2E-S15-1	Cervical deformity classification	Lecturer: Christopher P. Ames	Clinical Neurological Surgery and Orthopaedic Surgery, University of California, San Francisco, CA, USA
2E-S15-2	The surgical strategy for cervical kyphotic disorders	Lecturer: Nobuyuki Shimokawa	Department of Neurosurgery, Tsukazaki Hospital, Himeji, Hyogo, Japan
2E-S15-3	Our surgical strategy for cervical lesion causing kyphotic change	Lecturer: Manabu Sasaki	Department of Neurosurgery, Iseikai Hospital, Osaka, Japan
2E-S15-4	Cervical kyphosis after spinal tumor surgery	Lecturer: Yusuke Nishimura	Department of Neurosurgery Nagoya University, Graduate School of Medicine, Nagoya, Japan
2E-S15-5	Preventing Kyphotic deformity after surgery for cervical intramedullary tumors: Significance of myoarchitectonic spinolaminoplasty.	Lecturer: Ryu Kurokawa	Department of Neurosurgery, Dokkyo University School of Medicine, Tochigi, Japan
Friday, October 13 (11:30–11:50) Room F: Room 141–142, 4F, 1Bidg, Nagoya Congress Center			
Short Lecture 1 <i>(Lecture by English speaker)</i>	A New Strategy for Glioma Drug Discovery	Chair: Fumiharu Ohka	Department of Neurosurgery Nagoya University, Graduate School of Medicine, Nagoya, Japan
2F-SH1	A New Strategy for Glioma Drug Discovery	Lecturer: Nader Sanai	Division of Neurosurgical Oncology / Barrow Brain Tumor Research Center, Barrow Neurological Institute, Phoenix, Arizona, USA

Session / Subject Number	Session Title/Subject Title	Chair/Lecturer	Department/Office/City/Prefecture/Country
Friday, October 13 (12:00–13:00) Room F: Room 141–142, 4F, 1Bldg, Nagoya Congress Center			
Sponsored by Carl Zeiss Meditec			
Luncheon Seminar 2–5 (Lecture by English speaker)		Chair: Akira Ogawa	Department of Neurosurgery, Iwate Medical University, Morioka, Iwate, Japan
LS2–5–2	Utilizing an Operating Room Exoscope for Neurosurgical Oncology	Lecturer: Nader Sanai	Division of Neurosurgical Oncology / Barrow Brain Tumor Research Center, Barrow Neurological Institute, Phoenix, Arizona, USA
Friday, October 13 (15:20–16:30) Room H: International Conference Rooms, 3F, 3Bldg, Nagoya Congress Center			
Controversy Session 4	Simultaneous interpretation (Japanese → English)	Chair: Yoshihiro Muragaki	Faculty of Advanced Techno–Surgery, Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University, Tokyo, Japan
		Chair: Tomoki Todo	Division of Innovative Cancer Therapy, The Advanced Clinical Research Center, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan
		Chair: Yoshiaki Shiokawa	Department of Neurosurgery, Kyorin University School of Medicine, Tokyo, Japan
		Chair: Michihiro Kohno	Department of Neurosurgery, Tokyo Medical University, Tokyo, Japan
2H-CS4–1–1	グレード2神経膠腫に対する外科手術の展望	Lecturer: Kazuya Motomura	Department of Neurosurgery, Nagoya University Hospital, Nagoya, Japan
2H-CS4–1–2	グレード2神経膠腫に対する放射線治療、化学療法の展望	Lecturer: Yoshitaka Narita	Department of Neuro-Oncology and Neurosurgery, National Cancer Center Hospital, Tokyo, Japan
2H-CS4–2–1	Strategies for Treating Vestibular Schwannomas in NF2 Patients	Lecturer: Steven D. Chang	Otolaryngology–Head and Neck Surgery, Neurosurgery, Stanford University School of Medicine, Stanford, CA, USA
2H-CS4–2–2	ガンマナイフ・ノバリス治療について	Lecturer: Yoshimasa Mori	Department of Radiology, Aichi Medical University, Nagakute, Aichi, Japan
2H-CS4–2–3	聴力温存に必要な手術テクニック	Lecturer: Michihiro Kohno	Department of Neurosurgery, Tokyo Medical University, Tokyo, Japan
Friday, October 13 (9:00–9:50) Room I: Room 234, 3F, 2Bldg, Nagoya Congress Center			
Oral Session 074 (Lecture by English speaker)		Chair: Kazuhiko Sugiyama	Department of Clinical Oncology & Neuro-oncology Program, Hiroshima University Hospital, Hiroshima, Japan
2I-O074–5	Assessing praxis circuit in glioma surgery reduces the incidence of post-operative and long-term apraxia: a new intraoperative test	Lecturer: Marco Rossi	Neurosurgical Oncology Unit, Dept of Oncology and Hemato–Oncology, Università degli Studi di Milano, Humanitas Research Hospital, IRCCS, Milano, Italy
Friday, October 13 (11:30–11:50) Room I: Room 234, 3F, 2Bldg, Nagoya Congress Center			
Short Lecture 2 (Lecture by English speaker)	H3.3K27M mutation-derived novel neoantigen – characterization of the HLA–A2-binding epitope and a specific T cell receptor for development of T cell-based immunotherapy	Chair: Kosuke Aoki	Department of Neurosurgery Nagoya University, Graduate School of Medicine, Nagoya, Japan
2I-SH2–1	H3.3K27M mutation-derived novel neoantigen – characterization of the HLA–A2-binding epitope and a specific T cell receptor for development of T cell-based immunotherapy	Lecturer: Hideho Okada	Brain Tumor Immunotherapy Center, Department of Neurological Surgery, University of California San Francisco / Parker Institute for Cancer Immunotherapy
Friday, October 13 (16:30–17:30) Room I: Room 234, 3F, 2Bldg, Nagoya Congress Center			
Sponsored by MIZUHO Corporation			
Afternoon Seminar 2–5 (Lecture by English speaker)	Cerebral Revascularization. New Application of 3D Tractography	Chair: Isao Date	Department of Neurosurgery, Okayama University Graduate School of Medicine, Okayama, Japan
AS2–5–1	Principles and Practice of Cerebral Revascularization	Lecturer: Fady T. Charbel	Department of Neurosurgery, The University of Illinois, Chicago, IL, USA
AS2–5–2	New Applications of 3D Tractography for Subcortical Brain Tumor Surgery	Lecturer: Sebastian Flaminius Marius Koga	Ochsner North Shore Region Ochsner Health System, New Orleans, LA, USA
Friday, October 13 (12:00–13:00) Room N: Room 223, 2F, 2Bldg, Nagoya Congress Center			
Luncheon Seminar 2–12 (Lecture by English speaker)		Chair: Naotaka Usui	Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan
LS2–12–1	Surgery for Drug Resistant Epilepsy	Lecturer: P. Sarat Chandra	Department of Neurosurgery, All India Institute of Medical Sciences, New Delhi, India
LS2–12–2	The use of robotics to overcome inaccuracies of brain shift	Lecturer: David Sandeman	Southmead Hospital in Bristol, UK

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Saturday, October 14 (11:00–11:40) Room A: Century Hall, 2F, 1Bidg, Nagoya Congress Center			
Academical Lecture 3 (Lecture by English speaker)	Current direction and future perspectives for World Federation of Neurosurgery	Chair: Takamasa Kayama	Department of Advanced Cancer Science, Yamagata University Faculty of Medicine, Yamagata, Japan
3A-AL3	Current direction and future perspectives for World Federation of Neurosurgery	Lecturer: Franco Servadei	The World Federation of Neurosurgical societies (WFNS) / Neurosurgery, University of Padua and Parma, Italy / Neurosurgery, Humanitas University and Research Institute, Milano, Italy
Saturday, October 14 (10:20–11:50) Room C: Shirotori Hall (South), 1F, 4Bidg, Nagoya Congress Center			
Symposium 20	Simultaneous interpretation (Japanese → English)	Chair: Yoichi Katayama	Emeritus Professor, Department of Neurological Surgery, Nihon University School of Medicine, Tokyo, Japan
		Chair: Hiroki Namba	Department of Neurosurgery, Hamamatsu University School of Medicine, Hamamatsu, Japan
3C-S20-1	Neurosurgery for Psychiatric Disorders, investigational or accepted therapy?	Lecturer: Bart Nuttin	Group of Biomedical Sciences KU Leuven, Leuven, Belgium
3C-S20-2	Multidisciplinary teamwork framework for deep brain stimulation in Parkinson's disease: long way to go for better outcome in voice and speech disturbances	Lecturer: Hirohisa Watanabe	Brain and Mind Research Center, Nagoya University, Nagaya, Japan
3C-S20-3	DBS therapy with multidisciplinary approach	Lecturer: Yasushi Shimo	Department of Neurology, Juntendo University School of Medicine, Tokyo, Japan
3C-S20-4	Comprehensive perioperative management for advanced Parkinson's disease	Lecturer: Yoshinori Higuchi	Department of Neurosurgery, Chiba University School of Medicine, Chiba, Japan
3C-S20-5	Multi-disciplinary collaboration for treating patient with dystonia in Tokushima University Hospital	Lecturer: Hideo Mure	Department of Neurosurgery, School of Medicine, The University of Tokushima, Tokushima, Japan
3C-S20-6	Mortality and co-morbidity of advanced Parkinson disease patients following deep brain stimulation.	Lecturer: Taro Nimura	Department of Neurosurgery, Miyagi National Hospital, Miyagi, Japan
3C-S20-7	Team management of Deep Brain Stimulation for Parkinson's disease	Lecturer: Hiroki Toda	Department of Neurosurgery, Fukui Red Cross Hospital, Fukui, Japan
Saturday, October 14 (13:10–14:20) Room C: Shirotori Hall (South), 1F, 4Bidg, Nagoya Congress Center			
Symposium 21	Simultaneous interpretation (Japanese → English)	Chair: Hajime Arai	Department of Neurosurgery, Juntendo University Faculty of Medicine, Tokyo, Japan
		Chair: Takuya Akai	Department of Neurosurgery, Faculty of Medicine, University of Toyama, Toyama, Japan
3C-S21-1	Craniosynostosis: what to expect for the near future	Lecturer: Federico Di Rocco	Neurosurgery, Université Claude Bernard, Lyon 1, France / Pediatric Neurosurgeon, Hôpital Femme Mère Enfant, Lyon, France
3C-S21-2	Changes in the treatment algorithm for craniosynostosis by the introduction of a posterior cranial distraction	Lecturer: Yuzo Komuro	Department of Plastic and Reconstructive Surgery, Teikyo University School of Medicine, Tokyo, Japan
3C-S21-3	Treatment strategies and outcome of anterior skull synostosis	Lecturer: Kazuaki Shimoji	Department of Neurosurgery, Juntendo University School of Medicine, Tokyo, Japan
3C-S21-4	Surgical strategies for frontal cranioplasty – Indication and limitation of MCDO	Lecturer: Akira Gomi	Department of Pediatric Neurosurgery, Jichi Children's Medical Center, Tochigi, Japan
3C-S21-5	Strategic management of complex craniosynostosis associated with craniovertebral junction lesions	Lecturer: Nobuhito Morota	Division of Neurosurgery, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan
Saturday, October 14 (10:10–11:50) Room E: Reception Hall (West), 4F, 1Bidg, Nagoya Congress Center			
Symposium 22	Simultaneous interpretation (Japanese → English)	Chair: Takashi Araki	Department of Emergency and Critical Care Medicine, Saitama Medical Center, Saitama Medical University, Saitama, Japan
		Chair: Young-Soo Park	Department of Neurosurgery, Nara Medical University, Nara, Japan
3E-S22-1	Abusive Head Trauma	Lecturer: Ann-Christine Duhaime	Pediatric Neurosurgery, Neurosurgical Trauma and Intensive Care, Massachusetts General Hospital, MA, USA
3E-S22-2	Abusive Head Trauma in Infants and Children in Japan	Lecturer: Fujiko Yamada	Child First Japan
3E-S22-3	Abusive Head Trauma from the view point of forensic medicine	Lecturer: Hirotarō Iwase	Department of Legal Medicine, Graduate School of Medicine, Chiba University, Chiba, Japan
3E-S22-4	児童虐待事件の捜査・公判について ~ 医療機関に求めること	Lecturer: Satsuki Miyaji	Kyoto District Public Prosecutors Office, Kyoto, Japan
3E-S22-5	Medical legal systems related to Abusive Head Trauma	Lecturer: Takashi Moriwaki	Department of Neurosurgery, Osaka University Graduate School of Medicine, Osaka, Japan
3E-S22-6	Approach to Abusive Head Trauma in Children's Hospital	Lecturer: Mihoko Katou	Department of Neurosurgery, Aichi Children's Health and Medical Center, Aichi, Japan