

## Scientific Program

November 1, 2019

## Opening Remarks

10:55 – 11:00

Congress Room (B1F Kairaku 1)

*Haruhiko Kishima, President of AESC2019 / Department of Neurosurgery, Osaka University Graduate School of Medicine, Japan / Epilepsy Center, Osaka University Hospital, Japan*

## S1

## Symposium 1

11:00 – 12:05

Congress Room (B1F Kairaku 1)

## New Technology

*Chairs: Guoming Luan, Dept. of Functional Neurosurgery and Epilepsy Center, Sanbo Brain Hospital, Capital Medical University, China*  
*Kensuke Kawai, Department of Neurosurgery, Jichi Medical University, Japan*

- S1-1 Development of exoscopic neurosurgery for intractable epilepsy**  
*Haruhiko Kishima, Department of Neurosurgery, Osaka University Graduate School of Medicine, Japan / Epilepsy Center, Osaka University Hospital, Japan*
- S1-2 Development of neuro-endoscope assisted selective amygdalohippocampectomy**  
*Ichiro Takumi, Department of Neurosurgery, St Marianna University School of Medicine, Japan*
- S1-3 Current Status of Epilepsy Surgery in Korea and Initial Experience of Stereoelectroencephalography Electrode Implantation in Samsung Medical Center**  
*Seung-Chyul Hong, Department of Neurosurgery, Samsung Medical Center, Sungkyuunkwan University School of Medicine, Korea*
- S1-4 Surgical Treatment of Low Grade Epilepsy Associated Neuroepithelial Tumors Explored by Stereoelectroencephalography**  
*Haoran Ding, Department of Neurosurgery, Beijing Sanbo Brain Hospital Capital Medical University, China*

## Break

12:05 –

Congress Room (B1F Kairaku 1)

## LS

## Luncheon Seminar

12:15 – 13:15

Congress Room (B1F Kairaku 1)

## Message from Japan 1

*Chair: Taketoshi Maehara, Department of Neurosurgery, Tokyo Medical and Dental University, Japan*  
*Co-sponsor: UCB Japan Co., Ltd.*

- LS-1 How can we avoid seizure recurrence after curative epilepsy surgery ?**  
*Kentaro Tamura, Department of Neurosurgery, Nara Medical University, Japan*
- LS-2 Amygdala enlargement; a subtype of temporal lobe epilepsy**  
*Hidenori Sugano, Department of Neurosurgery, Juntendo University, Japan*

## Break

13:15 – 13:25

Congress Room (B1F Kairaku 1)

## Scientific Program

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O1		Oral Presentation 1
13:25 – 14:55		Congress Room (B1F Kairaku 1)
<b>Message from Asia 1</b>		
<i>Chairs: Seung-Chyul Hong, Department of Neurosurgery, Samsung Medical Center Sungkyunkwan University School of Medicine, Korea</i> <i>Zainal Muttaqin, Neurosurgery, Diponegoro University, Indonesia</i> <i>Ichiro Takumi, Department of Neurosurgery, St Marianna University School of Medicine, Japan</i>		
O1-1	<b>Determinants of seizure outcome in intracranial EEG cases</b>	
	<i>Naoto Kunii, Department of Neurosurgery, The University of Tokyo, Japan</i>	
O1-2	<b>Automated analysis of neuromagnetic epileptic activity using artificial intelligence</b>	
	<i>Masayuki Hirata, Department of Neurological Diagnosis and Restoration, Osaka University, Japan / Medical School, Osaka University, Japan</i>	
O1-3	<b>Widespread interictal epileptic discharge more likely than focal discharges to unveil the seizure onset zone in EEG-fMRI</b>	
	<i>Tomohiro Yamazoe, Department of Neurosurgery, Seirei Hamamatsu General Hospital, Japan / Epilepsy service and EEG Department, Montreal Neurological Institute and Hospital, McGill University, Canada</i>	
O1-4	<b>Surgical results of stereotactic radiofrequency thermocoagulation in 170 patients with hypothalamic hamartoma</b>	
	<i>Hiroshi Shirozu, Department of Functional Neurosurgery, National Hospital Organization, Nishiniigata Chuo Hospital, Japan / Hypothalamic Hamartoma Center, National Hospital Organization, Nishiniigata Chuo Hospital, Japan</i>	
O1-5	<b>Network of ictal head version in mesial temporal lobe epilepsy</b>	
	<i>Yao Wang, Department of Neurosurgery, Beijing Tiantan Hospital, Capital Medical University, China</i>	
O1-6	<b>Functional mapping for insular lobe: a study from Stereo-EEG patients</b>	
	<i>Cheng-chia Lee, Department of Neurosurgery, Taipei Veneral General Hospital, Nuerological Institute, Taiwan</i>	
EL1		Educational Lecture 1
14:55 – 15:35		Congress Room (B1F Kairaku 1)
<b>Current Status of Epilepsy Surgery</b>		
<i>Chairs: Chun Kee Chung, Department of Neurosurgery, Seoul National University, Korea</i> <i>Hidenori Sugano, Department of Neurosurgery, Juntendo University, Japan</i>		
EL1-1	<b>Hemispherotomy for Intractable Hemispheric Epilepsy in Indonesian Population</b>	
	<i>Zainal Muttaqin, Neurosurgery, Diponegoro University, Indonesia</i>	
EL1-2	<b>Epilepsy surgery in Vietnam</b>	
	<i>Chung kim Nguyen, Neurosurgery, Choray hospital, Viet Nam</i>	
Poster Tour with Coffee		
15:35 – 16:35		Congress Room (B1F Kairaku 1)

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S2		Symposium 2
16:35 – 17:15		Congress Room (B1F Kairaku 1)
<b>Surgery for Intractable Epilepsy</b>		
<i>Chairs: Xiongfei Wang, Department of Neurosurgery, Epilepsy Center, Movement Disorders Center, Sanbo Brain Hospital, Capital Medical University, China</i>		
<i>Satoru Oshino, Department of Neurosurgery, Osaka University, Japan</i>		
S2-1	<b>Noninvasive work-up for epilepsy surgery using dense array electroencephalographic source imaging</b>	
	<i>Masami Fujii, Department of Neurosurgery, Yamaguchi Prefectural Grand Medical Center, Japan</i>	
S2-2	<b>Techniques of epilepsy surgery of the frontal lobe: prefrontal lobectomy and frontal disconnective surgery</b>	
	<i>Tomonori Ono, Epilepsy Center, Nagasaki Medical Center, Japan</i>	
EL2		Educational Lecture 2
17:15 – 18:05		Congress Room (B1F Kairaku 1)
<b>New Concept for Epilepsy Surgery</b>		
<i>Chairs: Yang-Hsin Shih, Superintendent, Central Clinic and Hospital, Taiwan</i>		
<i>Masami Fujii, Department of Neurosurgery and Epilepsy Center, Yamaguchi Grand Medical Center, Japan</i>		
MS-3	<b>Comparison of transcortical approach and transsylvian approach for selective amygdalohippocampectomy; operation time, visual function, memory function and seizure outcome</b>	
	<i>Hiroshi Uda, Department of neurosurgery, Osaka City University Graduate School of Medicine, Japan</i>	
EL2-2	<b>Alternative to hemispherotomy for non-hemiplegic hemispheric epilepsy patients</b>	
	<i>Chun Kee Chung, Department of Neurosurgery, Seoul National University, Korea</i>	
Break		
18:05 – 18:15		Congress Room (B1F Kairaku 1)
ES		Evening Seminar
18:15 – 19:15		Congress Room (B1F Kairaku 1)
<b>Message from Japan 2</b>		
<i>Chair: Nobuhiro Mikuni, Department of Neurosurgery, Sapporo Medical University, Japan</i>		
<i>Co-sponsor: Eisai Co., Ltd</i>		
ES-1	<b>Paradigm shift and current issues in treatment options for epilepsy</b>	
	<i>Takamichi Yamamoto, Department of Neurosurgery &amp; Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital, Japan</i>	
ES-2	<b>Recording ingenuity for intracranial EEG monitoring in pediatric patients with intractable epilepsy</b>	
	<i>Koji Iida, Department of Neurosurgery, Hiroshima University, Japan / Epilepsy Center, Hiroshima University Hospital, Japan</i>	
Congress Reception		
19:30 –		Congress Reception (1F Ohwada)

## Scientific Program

November 2, 2019

MS	Morning Symposium with Coffee & Bread
8:15 – 9:15	Congress Room (B1F Kairaku 1)
<b>Temporal Lobe Epilepsy</b>	
<i>Chairs: Jung-Kyo Lee, Neurosurgery, Asan Medical Center, Korea</i>	
<i>Masayuki Hirata, Department of Neurological Diagnosis and Restoration, Osaka University Graduate School of Medicine, Japan</i>	

- MS-1 Postoperative anti-epileptic drugs of patients treated by hippocampal transection**  
*Taketoshi Maehara, Department of Neurosurgery, Tokyo Medical and Dental University, Japan*
- MS-2 Procedure-Related Temporal Infarct after Retractorless Transsylvian Selective Amygdalohippocampectomy and Impact on 2-Year Epilepsy Outcome**  
*Chih-Hsiang Liao, Division of Neurosurgery, Taichung Veterans General Hospital, Taiwan*
- EL2-1 ROBOTIC AND O-ARM GUIDED RADIO-FREQUENCY ABLATIVE HEMISPHERIC DISCONNECTION-A NEW MINIMALLY INVASIVE TECHNIQUE FOR PERFORMING HEMISPHEROTOMY**  
*Sarat P Chandra, Dept of Neurosurgery, All India Institute of Medical Sciences, India / NBRC & AIIMS, Delhi, Centre of Excellence for Epilepsy & MEG, India*

Poster Tour with Coffee
9:15 – 10:00
Congress Room (B1F Kairaku 1)

O2	Oral Presentation 2
10:00 – 11:15	Congress Room (B1F Kairaku 1)
<b>Message from Asia 2</b>	
<i>Chairs: Kim Chung Nguyen, Neurosurgery, Choray Hospital, Vietnam</i>	
<i>Naoto Kunii, Department of Neurosurgery, The University of Tokyo, Japan</i>	
<i>Chun-Fu Lin, Department of General Neurosurgery, Taipei Veterans General Hospital, Taiwan</i>	

- O2-1 Comparison of selective amygdalohippocampectomy by minimal temporal incision and keyhole approach with anterior temporal lobectomy in intractable temporal lobe epilepsy**  
*Xiangjun Ji, Department of Neurosurgery, Jinling Hospital, China*
- O2-2 Super-selective cerebral artery propofol test: Presurgical assessment of hippocampal functions**  
*Shin-ichiro Osawa, Department of Neurosurgery, Tohoku University Graduate School of Medicine, Japan*
- O2-3 Additional seizure reduction by replacement with Vagus Nerve Stimulation Model 106 (AspireSR)**  
*Hiroshi Kawaji, Departments of Neurosurgery, Seirei Hamamatsu General Hospital, Japan / Departments of Neurosurgery, Hamamatsu University School of Medicine, Japan*
- O2-4 Infection risk factors in Vagus Nerve Stimulation**  
*Naoto Kuroda, Department of Neurosurgery, Seirei Hamamatsu General Hospital, Japan*
- O2-5 Early recovery of interhemispheric functional connectivity after corpus callosotomy**  
*Syu-Jyun Peng, Professional Master Program in Artificial Intelligence in Medicine, Taipei Medical University, Taiwan*

## Scientific Program

November 2, 2019

<b>JS</b>		<b>Joint session with CAO A Epilepsy Surgery Task Force</b>
<b>11:15 – 12:00</b>		<b>Congress Room (B1F Kairaku 1)</b>
<b>with Neurologists</b>		
<i>Chair: Hsiang-Yu Yu, Epilepsy Section, Neurology department, Taipei Veterans General Hospital, Taiwan</i>		
<b>JS-1</b>	<b>Epilepsy surgery in Asia: current status and our tasks</b>	
	<i>Kensuke Kawai, Department of Neurosurgery, Jichi Medical University, Japan / Epilepsy Surgery Task Force, CAO A, ILAE, Other</i>	
<b>JS-2</b>	<b>The current problems of epilepsy surgery and how to promote epilepsy surgery in Korea</b>	
	<i>Seung Bong Hong, Department of Neurology, Samsung Medical Center Sungkyunkwan University School of Medicine, Korea</i>	
<b>Closing Remarks &amp; Award Announcement</b>		
<b>12:00 –</b>		<b>Congress Room (B1F Kairaku 1)</b>
<i>Haruhiko Kishima, President of AESC2019 / Department of Neurosurgery, Osaka University Graduate School of Medicine, Japan / Epilepsy Center, Osaka University Hospital, Japan</i>		

## Scientific Program

P	Poster
Poster Exhibit Area (B1F Kairaku 1)	
<b>Temporal Lobe Epilepsy</b>	

- P-1**      **Automated detection of MRI-negative HS and correlated neuroimaging/iEEG research**  
*Jia-Jie Mo, Department of Neurosurgery; Epilepsy Center, Beijing Tiantan Hospital, China*
- P-2**      **RCT of Stereotactic-EEG Guided Radio-frequency Thermocoagulation Versus Anterior Temporal Lobectomy for Mesial Temporal Lobe Epilepsy with Hippocampus Sclerosis**  
*Sichang Chen, Xuanwu Hospital Capital Medical University, China*
- P-3**      **Topological characters to distinguish patients appropriating for SAH or ATL, Two Clinical Cases analyzed with two different dynamic analytic methods**  
*Zhao Liu, No.1 Department of Neurosurgery, Sanbo Brain Hospital, Capital Medical University, China*
- P-4**      **Transcortical Selective Amygdalohippocampectomy via Keyhole Approach for Temporal Lobe Epilepsy**  
*Kangjian Sun, Department of Neurosurgery, Jinling Hospital, Nanjing University, China*
- P-5**      **Increased Binding Potential of Brain Adenosine A1 Receptor in Patients with mesial temporal lobe epilepsy with [11C] MPDX PET Imaging**  
*Motoki Inaji, Department of neurosurgery, Tokyo Medical and Dental University, Japan*

P	Poster
Poster Exhibit Area (B1F Kairaku 1)	
<b>Disconnection Surgery</b>	

- P-6**      **Clinical outcomes and complications after corpus callosotomy for pediatric intractable epilepsy**  
*Kenichi Usami, Division of Neurosurgery, National Center for Child Health and Development, Japan*
- P-7**      **Anatomic understanding of subtotal hemispherotomy for intractable epilepsy**  
*Takehiro Uda, Department of Neurosurgery, Osaka City University Graduate School of Medicine, Japan / Department of Pediatric Neurosurgery, Osaka City General Hospital, Japan*
- P-8**      **Early recovery of interhemispheric Functional connectivity of Corpus Callosotomy**  
*Cheng-chia Lee, Department of Neurosurgery, Taipei Veneral General Hospital, Nuerological Institute, Taiwan*
- P-9**      **Quantitative evaluation of activities of daily living for acute symptoms after corpus callosotomy**  
*Kazushi Ukishiro, Department of Epileptology, Tohoku University Graduate School of Medicine, Japan / Department of Neurosurgery, Yokohama City University Graduate School of Medicine, Japan*
- P-10**      **Safety and feasibility of endoscope-assisted interhemispheric transcallosal hemispherotomy technique: personal experience**  
*Heri Subianto, Division of Stereotactic and Functional Neurosurgery/Department of Neurosurgery, Dr Soetomo Academic Medical Center Hospital / Universitas Airlangga, Indonesia*

## Scientific Program

P	Poster
	Poster Exhibit Area (B1F Kairaku 1)
<b>Electroencephalogram, SEEG</b>	

- P-11**      **Is decremental modulation index a sign of good seizure outcome; a Sturge-Weber syndrome case with epileptic spasms**  
*Yasushi Iimura, Department of Neurosurgery, Juntendo University, Japan*
- P-12**      **Electrical biomarkers in SEEG for drug-resistant epilepsy due to FCD type II**  
*Chien-Chen Chou, Department of Epilepsy, Taipei Veterans General Hospital, Taiwan / School of Medicine, National Yang-Ming University, Taiwan / "Claudio Munari" Epilepsy Surgery Centre, Grande Ospedale Metropolitano Niguarda, Italy*
- P-13**      **Drug-resistant musicogenic epilepsy, a Stereo-electroencephalography study**  
*Po-Tso Lin, Department of Neurology, Neurological Institute, Taipei Veterans General Hospital, Taiwan*
- P-14**      **Is intracranial electroencephalography useful for planning resective surgery in intractable epilepsy with ulegyria?**  
*Yutaro Takayama, Department of Neurosurgery, National Center Hospital of Neurology and Psychiatry, Japan / Department of Neurosurgery, Yokohama City University Graduate School of Medicine, Japan*

P	Poster
	Poster Exhibit Area (B1F Kairaku 1)
<b>Neuropsychology</b>	

- P-15**      **Determining Meaningful Neuropsychological Changes after Epilepsy Surgery in Chinese Speaking Patients**  
*Yi-Jiun Lu, Division of Neurosurgery, Neurological Institute, Taipei Veterans General Hospital, Taiwan*
- P-16**      **Investigating lexical tone processing in the brain using SEEG and fMRI**  
*WEN JUI KUO, Institute of Neuroscience, National Yang-Ming University, Taiwan*
- P-17**      **Neurological, developmental and neuropsychological outcome in insular epilepsy surgery for focal cortical dysplasia**  
*Naoki Ikegaya, Department of Neurosurgery, National Center of Neurology and Psychiatry, Japan / Department of Neurosurgery, Yokohama City University Graduate school of medicine, Japan*
- P-18**      **Language magnetoencephalography may predict postoperative verbal memory change for mesial temporal lobe epilepsy**  
*Ryuzaburo Kochi, Department of Neurosurgery, Tohoku university graduate school of medicine, Japan*



## Scientific Program

P	Poster
Surgical Technique	
Poster Exhibit Area (B1F Kairaku 1)	

- P-19 Stereo-crossed radiofrequency ablation as a treatment for epilepsy: creating comprehensive ablations in three-dimensional space by network of intracranial electrodes**  
*Peng-Hu Wei, Department of Neurosurgery, Xuanwu Hospital, Capital Medical University, China*
- P-20 The supracerebellar-transtentorial approach to posteromedial temporal lesions in patients with drug-resistant epilepsy**  
*YenCheng Shih, Department of Neurology, Neurological Institute, Taipei Veterans General Hospital, Taiwan / Faculty of Medicine, National Yang-Ming University, Taiwan*
- P-21 The Prevention and Treatment of Temporal Lobe Epilepsy Operative Complications**  
*Feng Zhai, Department of Neurosurgery, Epilepsy Center, Sanbo Brain Hospital of Capital Medical University, China*
- P-22 Effects of sevoflurane anesthesia on intraoperative high frequency oscillation in patients with temporal lobe epilepsy caused by hippocampal sclerosis**  
*Asumi Orihara, Department of Neurosurgery, Tokyo Medical and Dental University, Japan*

P	Poster
Others	
Poster Exhibit Area (B1F Kairaku 1)	

- P-23 The Role of Adenosine A1R Agonist in AAT for Patients with Refractory Epilepsy in SWS: An in Vitro Electrophysiological Study**  
*Xiongfeng Wang, Department of Neurosurgery, Epilepsy Center, Movement Disorders Center, Sanbo Brain Hospital of Capital Medical University, China*
- P-24 Diagnostic value of Single-pulse electrical stimulation to indentify the epileptogenic zone**  
*Seunghoon Lee, Neurosurgery, Samsung Medical Center, Sungkyunkwan University, School of Medicine, Korea*
- P-25 The semiological characteristics and clinical application value of bilateral asymmetrical tonic seizures**  
*Mengyang Wang, Department of Neurology, Sanbo Brain Hospital, Capital Medical University, China*
- P-26 Resective surgery for intractable perirolandic epilepsy**  
*Akihiko Kondo, Department of Neurological Surgery, NHO Shizuoka Institute of Epilepsy and Neurological Disorders, Japan*