

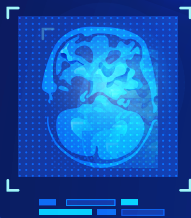
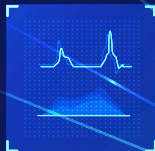
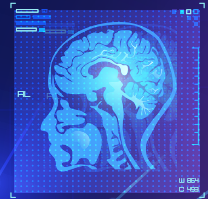
APFUS 2024

Asian Pacific Society for Transcranial Focused Ultrasound Surgery 2024



February 22(Thu.) - 24(Sat.), 2024

Grand Ballroom, Yonsei Baekyang PLAZA,
Yonsei University, Seoul, Korea



HOSTED BY

Asian Pacific Society for Transcranial Focused Ultrasound Surgery (APFUS)
Korean Focused Ultrasound Neurosurgical Society (KFUNS)

ORGANIZED BY



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Welcome Message

It is our pleasure to welcome all of you to the Asian Pacific Society for Transcranial Focused Ultrasound Surgery 2024 (APFUS 2024), which will be held at Grand Ballroom, Yonsei Baekyang PLAZA, Yonsei University, Seoul, Korea from February 22 to 24, 2024.

APFUS 2024 will be a fundamental ground to exchange high-quality results and ideas provided by researchers and experts within universities, industries, and research institutes. Furthermore, it also provides a conference to present the cutting-edge research outputs which would help both students and researchers with their future research studies and works to be conducted. Hence, the individuals actively engaged in transcranial focused ultrasound surgery research and developments are greatly encouraged to participate in the conference and gain the academic insights they have desired.

We hope you to take this opportunity to present your recent research and development highlights, interact with your colleagues and peers, and have a memorable and rewarding experience in APFUS 2024.









I look forward to seeing you in APFUS 2024.

Sincerely,

Jin Woo Chang
President of APFUS 2024



Conference Overview

	TITLE	Asian Pacific Society for Transcranial Focused Ultrasound Surgery 2024 (APFUS 2024)
	DATE	February 22 (Thu.) – 24 (Sat.), 2024
	VENUE	Grand Ballroom, Yonsei Baekyang PLAZA, Yonsei University, Seoul, Korea
	HOSTED BY	Asian Pacific Society for Transcranial Focused Ultrasound Surgery (APFUS) Korean Focused Ultrasound Neurosurgical Society (KFUNS)
	ORGANIZED BY	The Korean Neurosurgical Research Foundation The Korean Neurosurgical Society The Korean Stereotactic Functional Neurosurgery
	OFFICIAL LANGUAGE	English
	WEBSITE	www.apfus2024.com
	SECRETARIAT	Tel: +82-42-472-7460 / Fax: +82-42-472-7459 E-mail: info@apfus2024.com

Program at a Glance

as of February 2

*All Sessions, Lunches, Gala Dinner, except for Welcome and Farewell Party, will take place at Grand Ballroom, Yonsei Baekyang PLAZA

Feb 22 (Thu.)	18:00-20:00	Welcome Party (Wallga Galibi, 2F)
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KFUNS 2024 : Korean Focused Ultrasound Neurosurgical Society 2024

Feb 23 (Fri.)	08:30-08:50	Registration	
	08:50-08:55	Opening Remark	Jin Woo Chang (Yonsei Univ., President of KFUNS, Korea)
	08:55-09:00	Congratulatory Remark	Jong Hyun Kim (Korea Univ., President-elect of KSSFN(The Korean Society of Stereotactic and Functional Neurosurgery), Korea)
	Key Issues in FUS — Preclinical Studies in Korea		
	Moderator : Hyung Min Kim (KIST, Korea), Hak Jong Lee (Seoul Nat'l Univ., Korea)		
	09:00-09:20	Ultrasonically Powered Implantable Microlight for Brain Cancer Treatment	Seunghyun Song (Sookmyung Women's Univ., Korea)
	09:20-09:40	Robotic Technology Facilitating Automatic Positioning for Precise and Safe FUS Brain Stimulation	Joonho Seo (KIMM, Korea)
	09:40-10:00	Miniaturizing Efforts of Therapeutic Ultrasonic Transducer for Patient Convenience	Byung Chul Lee (KIST, Korea)
	10:00-10:20	Focused Ultrasound-Mediated Neurogenesis	Jaewoo Shin (KMEDI hub, Korea)
	10:20-10:40	Preclinical Research on Focused Ultrasound-Mediated Blood-Brain Barrier Opening for Neurological Disorders	Chanho Kong (Yonsei Univ., Korea)
	10:40-11:00	Coffee Break	
	Basic Concepts in FUS — Clinical Application		
	Moderator : Seok Ho Hong (Univ. of Ulsan, Korea), Hyun Ho Jung (Yonsei Univ., Korea)		
	11:00-11:20	Patient Selection and Clinical Limitation in FUS Practice	Na Young Jung (Univ. of Ulsan, Korea)
11:20-11:40	Lithotripsy-Future Application	Sung Yong Cho (Seoul Nat'l Univ., Korea)	
11:40-12:00	Current and Future Indications for FUS in CNS Disorders	Junhyung Kim (Univ. of Ulsan, Korea)	
12:00-13:30	Lunch / General Assembly		

APFUS 2024 : Asian Pacific Society for Transcranial Focused Ultrasound Surgery 2024

Feb 23 (Fri.)	13:30-14:00	Registration	
	14:00-14:05	Opening Remark	Jin Woo Chang (Yonsei Univ., President of APFUS, Korea)
	14:05-14:10	Congratulatory Remark	Jae-Young Lee (Seoul Nat'l Univ., President of KSTU (The Korean Society for Therapeutic Ultrasound), Korea)
	Basic Science / Technical Innovation		
	Moderator : Jae-Young Lee (Seoul Nat'l Univ., Korea), Eun-Joo Park (Seoul Nat'l Univ., Korea)		
	14:10-14:30	Therapeutic Potential of Blood-Brain Barrier Modulation with Focused Ultrasound: from Drug Delivery to Promoting Neural Plasticity	Isabelle Aubert (Univ. of Toronto, Canada)
	14:30-14:50	Precise Mechanical Tissue Destruction Using Pressure-Modulated Shockwave Histotripsy	Ki Joo Pahk (Kyung Hee Univ., Korea)
	14:50-15:10	Focused Ultrasound Neuromodulation: From Animals to Humans	Hyung Min Kim (KIST, Korea)
	15:10-15:30	Ultrasound-Mediated Neuromodulation	Hyunjoo Lee (KAIST, Korea)
	15:30-16:10	Coffee Break / E-Poster	
	Clinical Application / Targeting and Planning		
	Moderator : Jung-Il Lee (Sungkyunkwan Univ., Korea), Justin Cheng-chia Lee (Nat'l Yang Ming Chiao Tung Univ., Taiwan)		
	16:10-16:30	Focused Ultrasound Pallidothalamic Tractotomy for Cervical Dystonia: a Pilot Study	Shiro Horisawa (Tokyo Women's Medical Univ., Japan)
	16:30-16:50	Skull Heating and Acoustic Measurements in tcMRgFUS Treatments	Itay Rachimilevitch (Insightec, Israel)
16:50-17:10	Optimal Targeting Methods for Tremor Controls	Hyun Ho Jung (Yonsei Univ., Korea)	
17:10-17:30	Techniques for Precise Targeting for MRgFUS ; Thalamic Nucleus Segmentation with Novel MR Technique	Kyung Won Chang (Yonsei Univ., Korea)	
17:30-18:30	Drinks Reception / E-Poster		
18:30-20:30	Gala Dinner		



Feb 24 (Sat.)	08:30-08:50	Registration	
	FUS for Movement Disorders I		
	Moderator : Sang Ryong Jeon (Univ. of Ulsan, Korea), Haruhiko Kishima (Osaka Univ., Japan)		
	09:00-09:20	Bilateral FUS Surgery, Nara Medical Center	Hidehiro Hirabayashi (Nara Medical Center, Japan)
	09:20-09:40	MRgFUS vs. Gamma Knife Radiosurgery for Tremor	Jung-II Lee (Sungkyunkwan Univ., Korea)
	09:40-10:00	Predictors of Tremor Suppression in Patients Undergoing MRgFUS for Essential Tremor	Benjamin Jonker (St Vincent's Hospital, Australia)
	10:00-10:20	Coffee Break / E-Poster	
	Special Lectures		
	Moderator : Jin Woo Chang (Yonsei Univ., Korea)		
	10:20-10:50	Building Bridges Together: The Role of the Focused Ultrasound Foundation	Suzanne LeBlang (Focused Ultrasound Foundation, USA)
	10:50-11:20	Focused Ultrasound for Treatment of Alzheimer's Disease and Addiction	Ali Rezaei (West Virginia Univ., USA)
	BBB Modulation and Drug Delivery		
	Moderator : Jürgen Götz (The Univ. of Queensland, Australia)		
	11:20-11:40	BBBD for Glioma Chemotherapy	Haruhiko Kishima (Osaka Univ., Japan)
	11:40-12:00	Neuronavigation-Guided Focused Ultrasound and Its CNS Application	Hao-Li Liu (Nat'l Taiwan Univ., Taiwan)
	Sponsored Luncheon Seminar		
	Moderator : Sang Ryong Jeon (Univ. of Ulsan, Korea)		
	12:00-13:00	Insightec's Journey from Revolutionizing Surgery to a Future of Opportunities	Eyal Zadicario (Insightec, Israel)
	Presidential Lecture		
	Moderator : Eyal Zadicario (Insightec, Israel)		
	13:00-13:30	Update of Clinical Potentials of Brain MRgFUS	Jin Woo Chang (Yonsei Univ., President of APFUS, Korea)
	FUS for Movement Disorders II		
	Moderator : Hidehiro Hirabayashi (Nara Medical Center, Japan), Benjamin Jonker (St Vincent's Hospital, Australia)		
	13:30-13:50	Lessons Learned from tc MR-Guided Focused Ultrasound Pallidothalamic Tractotomy	Wei Chieh Chang (Show Chwan Memorial Hospital, Taiwan)
	13:50-14:10	HIFU for X-Linked Dystonia-Parkinsonism Patients	Roland Jamora (Univ. of the Philippines Manila, Philippines)
	14:10-14:30	Surgery at Field's of Forel for Movement Disorders and beyond: Next Indications of FUS	Shiro Horisawa (Tokyo Women's Medical Univ., Japan)
FUS for Special Conditions			
Moderator : Jung-II Lee (Sungkyunkwan Univ., Korea), Bomin Sun (Shanghai Jiao Tong Univ., China)			
14:30-14:50	Low-Intensity Ultrasound as a Novel Treatment Strategy for Alzheimer's Disease and Other Dementias (Preclinical And Clinical Studies)	Jürgen Götz (The Univ. of Queensland, Australia)	
14:50-15:10	Focused Ultrasound for Drug Resistant Epilepsy	Justin Cheng-chia Lee (Nat'l Yang Ming Chiao Tung Univ., Taiwan)	
15:10-15:30	FUS for Psychiatric Disorders	Bomin Sun (Shanghai Jiao Tong Univ., China)	
15:30-15:50	Coffee Break / E-Poster		
FUS for Movement Disorders III			
Moderator : Jong Hyun Kim (Korea Univ., Korea), Bomin Sun (Shanghai Jiao Tong Univ., China)			
15:50-16:10	MRgFUS - Growing Indian Experience	K. Madeswaran (Royal Care Super Speciality Hospital, India)	
16:10-16:30	Enhancing Targeting Precision	Eun Jung Lee (Seoul Nat'l Univ., Korea)	
16:30-16:50	Chronic Hypertension is a Key Factor leading to Tremor Recurrence after MRgFUS Thalamotomy	Longsheng Pan (Chinese PLA Medical School, China)	
16:50-16:55	Closing Remark & Awards Ceremony		

**** Feb 24 (Sat.) [18:00-20:30] Farewell Party (Cheongcheondang, SamcheongGak) - Invited Only**