DETAILED PROGRAM

[2023년 10월 6일(금)]

99:00-09:20 Mechanism of Bioeffect by Therapeutic Ultrasound 박은주(서울대병원) 09:20-09:40 Overview of Clinical Application of HIFU Therapy 김영선(민트병원) 09:40-10:00 Ultrasonic Transducer for Therapeutic Applications 이병철(KIST) Plenary Lecture I		Day 1 Program		
09:20-09:40 Overview of Clinical Application of HIFU Therapy 2 김영선(민트병원) 09:40-10:00 Ultrasonic Transducer for Therapeutic Applications 이번철(KIST) Plenary Lecture I	Education Session - Basics of Therapeutic Ultrasound 좌장: 김기동(분당서울대병원) / 손건호(IMGT)			
이용성(NET) Plenary Lecture I 10:00-10:40 The Future Perspective of Brain MRgFUS for Neurosurgery : Lessons Learned, Trouble Faced and Future Direction at Yonsei University 전자우(언세에대) 10:40-11:10 Coffee Break Physics & Technology Session - Physics and Technology for Advanced Therapeutic Ultrasound 제상: 박은주(서울대병원) / 윤경호(언세대학교 11:00-11:30 Development of a Robotic FUS System Toward Safe and Precise Brain Stimulation 11:30-11:50 Super-resolution Techniques for the Transcranial Focused Ultrasound Simulation 11:50-12:10 Acoustic Stress and Force Control Based on Patterned Interference Radiation Force (PRIF) Scientific Session I 12:10-12:25 Radiation-free tFUS Treatment Planning using Diffusion Model-based Synthetic CT Comparison of Photodynamic Therapy through Opening the Blood-Brain Barrier Using Ultrasound Lunch International Session - TAITU / JSTU Session Enhanced Sonodynamic Therapy by Carbon Dots-shelled Microbubbles with Focused Ultrasound Therapy University School of Medicine, Japan) 14:40-14:00 Building MR-guided Focused Ultrasound System: First Experience from National Taiwan University Hospital 14:40-15:00 Ultrasound Neuromodulation Induces Network Excitation of Cortical Neurons through the Activation of Mechanosensitive Channels Neurology Session (Basic) - Novel Approach of Focused Ultrasound Application for Brain Diseases Page 2014 Policy - 843 학의 전쟁(성급관대학교) 18:00-16:00 Ultrasound-mediated Neuromodulation Opening Hospital Policy - 843 학의 전쟁(성급관대학교) 18:00-16:00 Ultrasound-mediated Neuromodulation Opening Hospital Policy - 843 학의 Policy Hospital Policy - 843 학의 Policy - 843 학의 Policy Hospital Polic	09:00-09:20	Mechanism of Bioeffect by Therapeutic Ultrasound	박은주(서울대병원)	
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패널: 최민주(제주대학교) 16:30-17:00 패널토의 김영선(민트병원) 김 선(제이시스메디컬)	Neurology Session (Ba 15:30-15:50	Ultrasound Neuromodulation Induces Network Excitation of Cortical Neuro through the Activation of Mechanosensitive Channels sic) - Novel Approach of Focused Ultrasound Application for Brain Diseases Bidirectional Control of Epileptiform Activity by Focused Ultrasound Stimulation	(National Taiwan University Hospital, Taiwan) Masafumi Shimojo (National Institutes for Quantum and Radiological Science and Technology, Japar 좌장: 장진우(연세의대) / 김형민(KIST)	
16:30-17:00 패널토의 김영선(민트병원) 김 선(제이시스메디컬)	Neurology Session (Ba 15:30-15:50 15:50-16:10	Ultrasound Neuromodulation Induces Network Excitation of Cortical Neuro through the Activation of Mechanosensitive Channels sic) - Novel Approach of Focused Ultrasound Application for Brain Diseases Bidirectional Control of Epileptiform Activity by Focused Ultrasound Stimulation Acousto-bioelectronics for Cancer Treatments	(National Taiwan University Hospital, Taiwan) Masafumi Shimojo Ins (National Institutes for Quantum and Radiological Science and Technology, Japan 좌장: 장진우(연세의대) / 김형민(KIST) S 박진형(성균관대학교) 송승현(숙명여자대학교)	
General Assembly 사회자: 김형민(KIST)	Neurology Session (Ba 15:30-15:50 15:50-16:10 16:10-16:30	Ultrasound Neuromodulation Induces Network Excitation of Cortical Neuro through the Activation of Mechanosensitive Channels sic) - Novel Approach of Focused Ultrasound Application for Brain Diseases Bidirectional Control of Epileptiform Activity by Focused Ultrasound Stimulation Acousto-bioelectronics for Cancer Treatments Ultrasound-mediated Neuromodulation	(National Taiwan University Hospital, Taiwan) Masafumi Shimojo (National Institutes for Quantum and Radiological Science and Technology, Japan 좌장: 장진우(연세의대) / 김형민(KIST) 박진형(성균관대학교) 송승현(숙명여자대학교) 이현주(KAIST)	
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Day 2 Program				
Industry Session (공동주최: 범부처전주기의료기기연구개발사업단) 좌장: 박주영(가천대학교) / 김태형(범부처의료기기사업단)				
09:00-09:15	Preclinical Study Results and Preparation of Clinical Trial Using Sonotrip V20 in SNUH	박수진(서울대병원)		
09:15-09:30	Development of a Low-intensity Focused Ultrasound Stimulation System for Non-invasive Brain Neuromodulation	서선일(Neurosona)		
09:30-09:45	Drug Loaded Sono-sensitive Nanoparticle의 집속초음파 조건에 따른 약물 방출효과 연구	김대승(IMGT)		
09:45-10:00	Development of a histotripsy system capable of diagnosis and therapy for thyroid tumour treatment	허정민(Alpinion)		
Plenary Lecture II	enary Lecture II 좌장: 노용래(경북대학교) / 이학종(분당서울대병원			
10:00-10:40	Focused Ultrasound Strategies for Treating Neoplastic Diseases	Richard J. Price (The University of Virginia)		
Neurology Session (Clir	nical) - New Indication of Low Intensity Focused Ultrasound 좌장: 이원	은정(서울의대) / 홍석호(서울아산병원)		
11:10-11:30	A Pilot Study of Low-intensity Ultrasound for Patients with Prodromal AD and AD dementia	김재호(한림대학교)		
11:30-11:50	Effect of Low-Intensity Transcranial Focused Ultrasound Stimulation in Patients with Major Depressive Disorder: A Randomized, Double-Blind, Sham-Controlled Clinical Trial	석정호(연세대학교)		
11:50-12:10	Focused Ultrasound in the Treatment of Alzheimer's Disease	박소희(영남대학교)		
Scientific Session II				
12:10-12:25	A Method for the Guidance and Monitoring of Treatment by using Ultrasound Therapeutic Transducers	신의지(DGIST)		
12:25-12:40	Development of a 128-channel 1D HIFU Array System for Skin Care Treatment	김주환(DGIST)		
12:40-13:40	Lunch			
Scientific Session III	좌장: 서종범(연세대학교) / 정목근(대진대학교)			
13:40-13:55	Ultrasonocoverslip: In-vitro Platform for High-throughput Assay of Cell Type- specific Neuromodulation with Ultra-low-intensity Ultrasound Stimulation	· 이근형(성균관대학교)		
13:55-14:10	Enhancement of Antitumor Immunotherapy using Microbubble-combined Sonodynamic Therapy in Murine Breast Tumor	김미정(분당서울대병원)		
14:10-14:25	Tumor Suppressive Immune Response Induced by FUS in Pancreatic Cancer: In Vivo Study	박은주(서울대병원)		
14:25-14:40	Cavitation Energy Level Analysis during Boiling Histotripsy and Pressure-modulated Shockwave Histotripsy	안세준(경희대학교)		
14:40-14:55	Closed-loop Seizure Control with Transcranial Focused Ultrasound and Electrocorticography-based System on the Rat Model	금정은(KIST)		
14:55-15:10	Focused Ultrasound as a Novel Non-invasive Method for the Delivery of Gold Nanoparticles to Retinal Ganglion Cells	박준원(연세대학교)		
15:10-15:40	15:10-15:40 Coffee Break			
Oncology Session - Oncologic Application of Focused Ultrasound: Current and Future 좌장: 조성용(서울의대) / 최동석(최상산부인과의원)				
15:40-16:00	Recent Update in Application of HIFU for Pancreatic Cancer	이동호(서울의대)		
16:00-16:20	The Role of HIFU in Prostate Cancer Treatment	이학민(분당서울대병원)		
16:20-16:40	Clinical Potential of Histotripsy in Cancer Treatment	박기주(경희대학교)		
Award & Closing Ceremo	Award & Closing Ceremony			