

2023년도 대한치료초음파학회 제9차 학술대회

9th Annual Congress of The Korean Society
for Therapeutic Ultrasound

2023년 10월 6일(금) - 7일(토)
서울 더케이호텔



10월 6일 (금)

08:50-09:00 Opening Remarks

이재영 (KSTU 회장)

Education Session : Basics of Therapeutic Ultrasound

09:00-09:20 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 (한국과학기술연구원)

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

장진우 (연세의대)

10:40-11:10 Coffee Break

Physics & Technology Session : Physics and Technology for Advanced Therapeutic Ultrasound

11:10-11:30 Development of a Robotic FUS System Toward Safe and Precise Brain Stimulation

서준호 (한국기계연구원)

11:30-11:50 Super-resolution Techniques for the Transcranial Focused Ultrasound Simulation

신민우 (연세대학교)

11:50-12:10 Acoustic Stress and Force Control Based on Patterned Interference Radiation Force (PRIF)

박관규 (한양대학교)

Scientific Session I

12:40-13:40 Lunch

International Session

13:40-14:00 TBD

Ching-Hsiang Fan
(National Cheng
Kung University)

14:00-14:20 Therapeutic Prospects of Gene Delivery using Ultrasound and Nanobubbles

Hiroshi Kida
(Fukuoka University)

14:20-14:40 TBD

Masafumi Shimojo
(National Institutes for
Quantum and Radiological
Science and Technology)

14:40-15:00 TBD

Chih-Horng Wu
(National Taiwan
University Hospital)

15:00-15:30 Poster Session / Coffee Break

Neurology Session (Basic) : Novel Approach of Focused Ultrasound Application for Brain Diseases

15:30-15:50 Bidirectional Control of Epileptiform Activity by Focused Ultrasound Stimulations

박진형 (성균관대학교)

15:50-16:10 Treating Cancers Via Ultrasonically Powered Microdevices

송승현 (숙명여자대학교)

16:10-16:30 Acoustochemical: 초음파 뇌 정밀 자극 기술

이현주 (KAIST)

16:30-17:00 Debate / Policy

TBD

17:00 ~ General Assembly

김형민 (KSTU 총무이사)

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10월 7일 (토)

Industry Session

09:00-09:15	자궁근종 치료를 위한 Sonotrip V20의 유효성과 안정성 연구의 결과	박수진 (Jeisys Medical, 서울대학교병원)
09:15-09:30	비침습적 뇌신경조절을 위한 저강도 집속형초음파자극시스템 개발	서선일 (Neurosona)
09:30-09:45	Drug Loaded Sono-sensitive Nanoparticle의 집속초음파 조건에 따른 약물 방출효과 연구	김대승 (IMGT)
09:45-10:00	갑상선종양치료를 위한 진단/치료 융합 Histotripsy 장비 개발	허정민 (Alpinion)

Plenary Lecture II

10:00-10:40	Focused Ultrasound Strategies for Treating Neoplastic Diseases	Richard J Price (University of Virginia)
10:40-11:10	Coffee Break	

Neurology Session (Clinical) : New Indication of Low Intensity Focused Ultrasound

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	저강도 집속초음파 자극을 이용한 주요우울장애의 치료 : 탐색임상시험 결과	석정호 (연세대학교)
11:50-12:10	Extensive Frontal Focused Ultrasound Mediated Blood-brain Barrier Opening for the Treatment of Alzheimer's disease: a Proof-of-concept Study	박소희 (영남대학교)

Scientific Session II

12:40-13:40 Lunch

Scientific Session III

15:10-15:40 Coffee Break

Oncology Session : Oncologic Application of Focused Ultrasound: Current and Future

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)
16:40 ~	Award & Closing Ceremony	김형민 (KSTU 총무이사)