

SESSION	BOARD #		
1	1	Abel, Ravit	Radar detection of gold nanoparticles for deep brain imaging
1	2	Agyeman, Kofi	Functional Ultrasound Imaging Captures Pressure Dynamics in Human Spinal Cord During Micturition
1	3	Barral, Simon	Acoustic bacteria as live reporter for therapeutic bacteria in tumors
1	4	Barturen-Larrea, Pierina	IN SITU MONITORING OF CANCER METASTASIS WITH BIOMOLECULAR ULTRASOUND
1	5	Bautista Kathlyne, Jayne	Feasibility of Using Deep Learning to Detect Cancer in Ultrasound Microvasculature Images
1	6	Brunet, Elena	Molecular characterization of ultrasound sensitive primary sensory neurons
1	7	Crown, Lindsey	Functional ultrasound reveals theta frequency deep brain stimulation of the medial septal nucleus reverses NMDA antagonist MK-801-induced decreases to septo-hippocampal blood perfusion
1	8	Duan, Mengtong (Tom)	Second-Generation Mammalian Acoustic Reporter Genes Enable Gene Expression-Guided Ultrasound Tumor Biopsy
1	9	Dutka, Przemyslaw	Structure of Anabaena flos-aquae gas vesicles revealed by cryo-ET
1	10	Guo, Hongsun	An Off-target-free Transgenically Deafened Mouse Model for Sonogenetics
1	11	Harb, Manwal	Noninvasive Multiplexed Gene Delivery to the Brain
1	12	Hu, Zhongtao	Airy Beam-enabled Binary Acoustic Metasurfaces (AB-BAMs) for Ultrasound beam manipulation
1	13	Liu, Xilun	Full Wave Inversion for Ultrasound Tomography Using Physics Based Deep Neural Network
1	14	Wasih, Mohammad	Neural Networks With Data Transformation for A Fast and Reliable Image Reconstruction From A Single Plane Wave
1	15	Burghoorn, Niels	Integrated lipid bilayer membranes for investigating biophysical mechanisms of ultrasound neuromodulation
1	16	Gong, Chen	Ultrasound Stimulation for Optic Nerve Repairation

SESSION	BOARD #		
2	1	Huang, Zhimin	Site-specific Therapeutics for Non-genetic Noninvasive Neuromodulation
2	2	Hyun, Jung Ho	Capturing “invisible” processes in complex behaviors by tagging active neurons
2	3	Kim, Chulyong	Focused Ultrasound Hyperthermia mediated spatial control of thermal responsive CAR T cells in brain tumors
2	4	Kolios, Michael	Ultra-high frequency ultrasound imaging of gas vesicle phantoms to estimate transducer pressure
2	5	Li, Richard	Engineering Viral Vectors for Enhanced Acoustically Targeted Gene Delivery to the Brain
2	6	Li, Yueming	Optically-generated Focused Ultrasound for Noninvasive Brain Stimulation with Ultrahigh Precision
2	7	Liao, Defei	Development of a Vertically Deployed Surface-Acoustic-Wave (VD-SAW) Array Transducer for Interrogating Piezo Channels
2	8	Ling, Bill	Truly tiny and long-circulating acoustic protein nanostructures for molecular ultrasound imaging
2	9	Liu, Ann	Temperature Sensitive State Switches For Focused Ultrasound Control of Macrophage Immunotherapy
2	10	Nayak, Rohit	Nonlinear ultrasound imaging of acoustic biomolecules using coded excitations
2	11	Patel, Ayushi	Antibodies for the detection of GvpA protein of intact gas vesicles
2	12	Puleo, Chris	Clinical Feasibility of Liver-Targeted Peripheral Ultrasound Neuromodulation (pFUS) in Type 2 Diabetics
2	13	Zhang, Zeng	Translational Applications of Theranostic Microbubbles
2	14	Pavlic, Alen	Acoustophoresis of Legionella species and the influence of viscous effects on acoustic forces
2	15	Yang, Yaoheng (Mack)	TRPV1-mediated sonogenetics for noninvasive and spatiotemporally precise causal control of neurons, neural circuits, and mouse behavior
2	16	Heiles, Baptiste	3D Nonlinear Sound-Sheet Imaging of Biomolecular Contrast Agents
2	17	Jin, Zhiyang	Ultrasonic Genetically Encoded Calcium Indicators
2	18	Crogman, Horace	Creation of electro-magnetic assisted “Star-like” formation from cancer cells using a laser trap

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3	1	Rabut, Claire	Acoustic tumor paint: a noninvasive ultrasound method for brain tumor diagnosis
3	2	Salahshoor, Hossein	Computational Mechanics of Gas Vesicles Subject to Ultrasound Pressure
3	3	Sasson, Chloé	Optimization, modularization, and trans-species adaptation of gas vesicles operons for monitoring bacterial cancer therapeutics
3	4	Schrunk, Erik	Site-specific chemical functionalization of gas vesicles via structure-guided sequence engineering
3	5	Seo, Joon Pyung	Recovery of Markers through Insonation: An alternative to monitoring gene expression in deep tissues
3	6	Sharma, Deepa	In vivo assessment of brain tumor response to MRI-guided ultrasound stimulated microbubble and radiation therapy
3	7	Shen, Hao	Systematic Characterization of Sonogenetic Membrane Proteins in an in vivo-Mimicking Environment
3	8	Shivaei, Shirin	Ultrasound imaging of in situ gene expression in the brain
3	9	Singh, Karanpartap	TUSNet: Deep learning based instant simulations for transcranial focused ultrasound
3	10	Suter, Benjamin	Echogenic Biosensors for Fast and Unambiguous Gastrointestinal Anastomotic Leak Detection
3	11	Tang, Yuqi	Microbubble-Enhanced 3D Functional Imaging in Deep Brain with Photoacoustic Tomography and Localized Ultrasound Imaging
3	12	Waasdorp, Rick	Skull-aberration correction for high precision transcranial sonogenetics
3	13	Walsh, Callum	Introducing a novel head-mounted ultrasound transducer capable of neuromodulation in awake-behaving mice.
3	14	Lee, Keunhyung	Acoustic cell stimulation platform for investigating glia-neuron interactions upon low-intensity ultrasound stimulation
3	15	Benčina, Mojca	Ultrasound-mediated control of engineered cells in vivo
3	16	Newman, Malachy	Non-Cavitation Ultrasound-Mediated Effects of Neuronal Cells
3	17	Ye, Dezhuang	Incisionless targeted AAV delivery to the brain by focused ultrasound-mediated nasal administration
3	18	Shen, Qionghua(Nicole)	Ultra-small gas-filled protein nanostructures for extravasation into lymphatic tissues
3	19	Nouraein, Shirin	Feasibility of The Noninvasive Gene Delivery/Editing to Large Brain Areas

SESSION	BOARD #		
4	1	Wang, Chonghe	Bioadhesive Ultrasound for Long-term Continuous Imaging of Diverse Organs
4	2	Wekselblatt, Joseph	A better model for vision research: mapping the tree shrew visual system using functional ultrasound imaging.
4	3	Welch, Phoebe	Gas vesicle expression in HEK293T and induced pluripotent stem cells using drug-selectable acoustic reporter gene constructs
4	4	Wu, Di	Biomolecular actuators for genetically selective acoustic manipulation of cells
4	5	Wu, Yiqian	Control of the activity of CAR-T cells within tumors via focused ultrasound
4	6	Xu, Kevin	TRPV1-mediated sonogenetic neuromodulation of motor cortex in freely moving mice
4	7	Xu, Lu	A neuronavigation-guided sonobiopsy device for the noninvasive diagnosis of brain diseases
4	8	Thorpe, Bridget	Exploring the Use of Ultrasound Therapy for Improved Metabolic Hormone Release from Thyroid Gland
4	9	Yoo, Jinhee	Non-invasive cell trapping using single-beam acoustic tweezers
4	10	Yang, Jee Won	Ultrasonic Reporter for Kinase Activity
4	11	Yang, Jing	Dual-Frequency Technology for Detection of Ultrasound Contrast Agents
4	12	Yang, Leqi	Effect of the Static Magnetic Field on Focused Ultrasound Induced Blood-brain Barrier Opening
4	13	Yao, Yuxing	Non-invasive actuation of chemical reactions through mechanochemistry and gas vesicle proteins
4	14	Yuan, Jinyun	Temporal dynamics of circulating tumor DNA detected by sonobiopsy in a porcine model of glioblastoma
4	15	Zhao, Lu	A Potential Sonogenetic Actuator for Ultrasound-mediated Neuromodulation
4	16	Agyeman, Kofi	Revealing the Mechanisms of Spinal Cord Neuromodulation using Functional Ultrasound Imaging
4	17	Liu, Xilun	Ultrasound Super Resolution Using Deep Learning Based on Attention Mechanism
4	18	Zderic, Vesna	Analyzing gene expression after administration of low-intensity therapeutic ultrasound in human islet cells
4	19	Terwiel, Dion	Engineering of acoustic pH indicators based on genetically encoded gas vesicles