

	Wednesday Dec 10	Thursday Dec 11	Friday Dec 12	Saturday Dec 13	Sunday Dec 14
8:00-9:00 am		Breakfast	Breakfast		
9:00-9:30 am		Keynote: Huijiang Wang - Sono-chemogenetics Session Chairs: Peter Wang & Sarah Zhang	Keynote: Andreas Herrmann Session Chairs: Serge Picaud & Callum Walsh		
9:30-10:30 am		9:30-9:50 am Engineering sonogenic EchoBack CAR-T cells Peixiang He, University of California, San Diego	9:30-9:50 am Sonochemical activation of covalent prodrugs via deep-penetrating ultrasound Xiaoran Hu, Syracuse University		
		9:50-10:10 am Integrated CRISPR-Cas9 and sonogenetic tumor engineering boosts CAR-T cell efficacy in triple-negative breast cancer Zhou Yuan, University of Southern California	9:50-10:10 am TRPV4-F617L as an ultrasound-sensitive actuator for in vivo sonogenetic neuromodulation Tianqi Xu, Washington University in St. Louis		
		10:10-10:30 am Magneto- and sono-genetics for non-invasive, remote neuromodulation Jae-Hyun Lee, Yonsei University	10:10-10:30 am Non-genetic high precision photoacoustic neural stimulation Chen Yang, Boston University		
10:30-12:00 pm		Poster Session 1 & Coffee	Poster Session 3 & Coffee		
12:00-1:00 pm		Lunch	Lunch		
1:00-1:30 pm		Keynote: Isabelle Aubert - Gene delivery Session Chairs: Hong Chen & Niviv Nystorm	Keynote: Jerzy Szablowski Session Chairs: Peifeng Song & Theresa Kosmides		
1:30-2:30 pm		1:30-1:50 pm Mechanistic insights into theranostic ultrasound-mediated brain gene delivery Fotios Tsitsos, Columbia University	1:30-1:50 pm Deep-tissue functional molecular imaging with 3D integrated photoacoustic tomography and ultrasound localization microscopy (3D-PAULM) Yirui Xu, Duke		
		1:50-2:10 pm Ultrasound control of gene expression in human induced pluripotent stem cells via heat shock promoters Kama Bell, Pennsylvania State University	1:50-2:10 pm Longitudinal brain-wide imaging of metastasis dynamics using acoustic reporter genes Pierina Barturen-Larrea, California Institute of Technology		
		2:10-2:30 pm Low-intensity transcranial ultrasound in glymphatic function and brain waste removal Taweon Choi, Sunkyunkwan University	2:10-2:30 pm Ultrasonic reporter for kinase activity Jee Won Yang, California Institute of Technology	Caltech Demos	USC Demos
2:30-4:00 pm		Poster Session 2 & Coffee	Poster Session 4 & Coffee		
4:00-4:30 pm		Keynote: Fei Yan - Gas vesicles Session Chairs: David Maresca & Reid Vassallo	Keynote: Claire Nastaskin - Human functional imaging Session Chairs: Mike Kolios & Fatemeh Zareian		
4:30-5:30 pm	Check in & Welcome Reception	4:30-4:50 pm Super-resolution cellular ultrasound imaging based on nonlinear gas vesicle scattering Hugues Favre, Delft University of Technology	4:30-4:50 pm A prefrontal cortex-hypothalamus circuit for heart rate control in non-human primates Kevin Xu, Washington University in St. Louis		
		4:50-5:10 pm Acoustic tumor paint for real-time imaging, surgical guidance and recurrence monitoring of brain tumors with ultrasound George Daghlian, California Institute of Technology	4:50-5:10 pm Acoustic transparency enabling functional ultrasound imaging through mouse and human skulls Yaoheng Yang, University of Southern California		
		5:10-5:30 pm In vitro development of probiotic acoustic biosensors for noninvasive imaging of gut inflammation Jamie Kwon, California Institute of Technology	5:10-5:30 pm Unravelling effects of epilepsy-foci resection and responsive neurostimulation in the human brain using functional ultrasound imaging of interictal activity Kofi Agyeman, University of Southern California		
5:30-6:00 pm	Keynote: Gabe Kwong - Sonogenetics Moderator: Shrek Chalasani	Break	Break		
6:00-7:00 pm	Open-Floor Discussion, Moderated by Stuart Foster Sonogenetics: opportunities and challenges	Open-Floor Discussion, Moderated by Mikhail Shapiro Molecular imaging: opportunities and challenges	Open-Floor Discussion, Moderated by Claire Nastaskin From bench to clinic: opportunities and challenges		
7:00-7:30 pm		Walk or Lyft to Dinner			
7:30-9:00 pm	Mingling	Conference Dinner	Dinner on Your Own		