

	Thursday Dec 8	Friday Dec 9	Saturday Dec 10	Sunday Dec 11	Monday Dec 12	Tuesday Dec 13	
8:00-9:00 am		Breakfast	Breakfast	Breakfast	Optional Demo Day 1	Optional Demo Day 2	
9:00-9:30 am		<b>Keynote: Mickael Tanter</b>	<b>Keynote: Elisa Konofagou</b>	Mini-demos: (1) ultrasound equipment (Verasonics, VisualSonics, Iconeus); (2) biomolecular engineering (Lab tour)			
9:30-10:30 am		9:30-9:50 am Whole-brain imaging of tumor-brain interactions using acoustic reporter genes and fUSI Claire Rabut, California Institute of Technology	9:30-9:50 am Cells are depolarized through cellular membrane stretching via deflection from ultrasound James Friend, UC San Diego				
		9:50-10:10 am Multiplexed imaging using high frequency ultrasound and gas vesicles Sangpil Yoon, University of Oklahoma	9:50-10:10 am Non-invasive 2D array-based ultrasound retinal prosthesis and its frequency-dependent efficiency Gengxi Lu, University of Southern California				
		10:10-10:30 am 3D Nonlinear Sound-Sheet Imaging of Biomolecular Contrast Agents B. Heiles, Delft University of Technology	10:10-10:30 High Precision Photoacoustic Neural Stimulation Chen Yang, Boston University				
10:30-12:00 pm		<b>Poster Pitch, Posters &amp; Coffee</b>	<b>Poster Pitch, Posters &amp; Coffee</b>	Optional Beach trip Hiking trip			
12:00-1:00 pm		Lunch	Lunch				Lunch
1:00-1:30 pm		<b>Overview: Shrek Chalasani</b>	<b>Overview: Yingxiao Peter Wang</b>				
1:30-2:30 pm		1:30-1:50 pm Mechanisms underlying ultrasound sensitivity of a sonogenetic channel, hsTRPA1 Wen Mai Wong, Salk Institute for Biological Sciences	1:30-1:50 pm Programming synthetic T cell immunity against solid tumors by thermal targeting Lena Gamboa, Georgia Tech & Emory University				
		1:50-2:10 pm Sonogenetic therapy for restoring vision in blind patients: a proof of concept in rodents Serge Picaud, Institut de la Vision	1:50-2:10 pm Focused ultrasound-mediated mechanogenetics for immunotherapy Chi Woo Yoon, University of California San Diego				
		2:10-2:30 pm TRPV1-mediated sonogenetics for noninvasive and spatiotemporally precise causal control of neurons, neural circuits, and mouse behavior Yaoheng Yang, Washington University in St. Louis	2:10-2:30 pm Deep-tissue optogenetics and photoacoustic imaging of photoswitchable transgenic mouse models Junjie Yao, Duke University				
2:30-4:00 pm		<b>Poster Pitch, Posters &amp; Coffee</b>	<b>Poster Pitch, Posters &amp; Coffee</b>				
4:00-4:30 pm		<b>Overview: Hong Chen</b>	<b>Overview: David Maresca</b>				
4:30-5:30 pm	Welcome Reception	4:30-4:50 pm Feasibility of The Noninvasive Gene Delivery/Editing to Large Brain Areas Shirin Nouraien, Rice university	4:30-4:50 pm Ultrasonic Genetically Encoded Calcium Indicators Zhiyang Jin, California Institute of Technology				
		4:50-5:10 pm Incisionless targeted AAV delivery to the brain by focused ultrasound-mediated nasal administration Dezhuang Ye, Washington University in St. Louis	4:50-5:10 pm Engineering of acoustic pH indicators based on genetically encoded gas vesicles D. Terwiel, Delft university of technology				
		5:10-5:30 pm Ultra-small gas-filled protein nanostructures for extravasation into lymphatic tissues Qionghua (Nicole) Shen, Rice University	5:10-5:30 pm Second-Generation Acoustic Reporter Genes Enable Ultrasound Imaging of Tumor-Homing and Intestinal Bacteria Marjorie T. Buss, California Institute of Technology				
5:30-6:00 pm	Overview: Mikhail Shapiro	Break	Break				
6:00-7:00 pm	<b>Panel Discussion</b> Moderator: Stuart Foster	<b>Panel Discussion</b> Moderator: Kathy Ferrara	<b>Panel Discussion</b> Moderator: Trainees				
7:00-7:30 pm		Walk or Lyft to Dinner	Dinner on Your Own				
7:30-9:00 pm	Mingling	Conference Dinner 7:30 pm University Club of Pasadena					