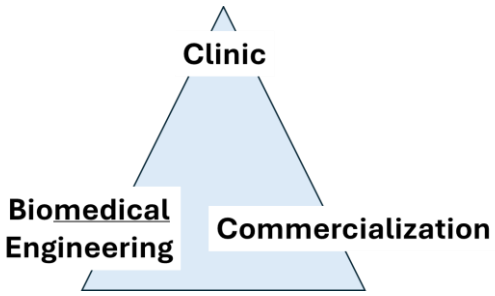
North Texas Biomedical Engineering Symposium

November 14-15, 2024

Room Location: TBD

Theme: Medical technology innovation, commercialization, and clinical translation



Thursday, November 14

Time	Title	Speaker
10:00 AM - 10:05 PM	Welcoming remarks	
10:00 AM - 12:00 PM (more time needed?)	Biomedical Hackathon (Makeathon?)	Students, postdocs, and other trainees [Organized by Dr. Akers and leaders from additional institutions (participation and ideas needed)]
12:00 PM - 1:00 PM	**Lunch Break (boxed lunch)**	
1:00 PM - 2:00 PM	Career roundtable	Faculty and alumni
2:00 PM - 3:00 PM	Poster Session #1	Students, postdocs, and other trainees [Organized by Drs. Pence, Miller, Varner]
3:00 PM - 4:00 PM	Poster Session #2	Students, postdocs, and other trainees [Organized by Drs. Pence, Miller, Varner]
4:00 PM - 6:00 PM	Social activities, games, events	

Friday, November 15

Time	Title	Speaker
8:00 AM - 8:30 AM	**Breakfast**	
Keynote Session		
8:30 AM - 8:40 AM	Welcoming remarks	Dr. W.P. Andrew Lee, M.D.* EVP for Academic Affairs and Provost, UTSW
8:40 AM - 9:00 AM	Opening remarks to introduce the participating organizations and highlight the purpose of the meeting	Dr. Samuel Achilefu, Ph.D. Chair, Dept. of BME, UTSW
9:00 AM - 10:00 AM	**Kam Family Award Lecture** *A hitchhiker's and backpacker's approach to drug delivery*	Dr. Samir Mitragotri, Ph.D. Harvard University
10:00 AM - 10:40 AM	Keynote Lecture	Dr. Ahmad Bahai, Ph.D. CTO, Texas Instruments
10:40 AM - 11:00 AM	**Coffee break: Light snacks and beverages**	
Thematic Academic Session		

11:00 AM - 11:20 AM	*Studying the underlying biology of aging through engineering novel tools*	Salman Sohrabi, Ph.D. Assistant Professor, BME, UTA
11:20 AM - 11:40 AM	*Commercialization of a pillar/perfusion plate platform for dynamic human organoid culture and analysis*	Moo-Yeal Lee, Ph.D. Associate Professor, BME, UNT
11:40 AM - 12:00 PM	*Tissue mechanobiology in tumor pathogenesis*	Jacopo Ferruzzi, Ph.D. Assistant Professor, BME, UTD
12:00 PM - 12:05 PM	Cake-cutting ceremony	Leaderships
12:05 PM - 1:00 PM	**Lunch Break (boxed lunch)**	
Thematic Academic Session		
1:00 PM - 1:20 PM	*Discovery and clinical translation of mRNA SORT lipid nanoparticles (LNPs) for the treatment of genetic respiratory diseases*	Daniel Siegwart, Ph.D. Professor, Dept. BME, UTSW Speaker
1:20 PM - 1:40 PM	*Transport phenomena through a nanopore for single molecule and single cell analysis*	MinJun Kim, Ph.D. Professor, Dept. Mechanical Engr, SMU
1:40 PM - 2:00 PM	*TBD*	Open slot (mentee lightning talks? Students, postdocs)
North Texas Philanthropy and Scientific Resources ("Bench to Clinic")		
2:00 PM - 2:15 PM	*TBD*	Nicole Small President, Lyda Hill Philanthropies
2:15 PM - 2:30 PM	*TBD*	ARPA-H*
2:30 PM - 2:45 PM	*TBD*	BioNorth Texas *
2:45 PM - 3:00 PM	**Coffee break**	
North Texas Biotech Success Stories ("Bench to Commercialization")		
3:00 PM - 3:20 PM	*BioLabs Pegasus Park: A platform to launch your biotech*	Dr. Gabby Everett, Ph.D. Director, BioLabs North Texas
3:20 PM - 3:40 PM	*TBD*	Local company TBN
3:40 PM - 4:00 PM	*The silver jubilee of biotech in North Texas: 25 years of advances and lessons learned*	Dr. Claire Aldridge, Ph.D. Form Bio, Colossal Biosciences
Outlook		

4:05 PM - 4:45 PM	Future of BME in North Texas and next steps for trans-institutional collaboration	Michael Cho, Ph.D. Chair BioE, UTA Shalini Prasad*, Ph.D. Chair BME, UTD Samuel Achilefu, Ph.D. Chair BME, UTSW Jung-chih Chiao*, Ph.D., Chair ECE, SMU Vijay Vaidyanathan, Ph.D., Chair BME, UNT
4:45 PM - 5:00 PM	Best Poster Award Winners and Raffle Drawing Prizes	
	Reception and social networking time	

*Proposed, not yet confirmed