

**Mayo Clinic Ultrasound Research Center Symposium:
Convergence of Waves and Ideas**

Saturday, December 15, 2018	
7:30 a.m.	Registration & Breakfast
8:30 a.m.	Welcome and Overview Matthew R. Callstrom, M.D., Ph.D., James F. Greenleaf, Ph.D.
8:45 a.m. No CME	Vantage system, a platform for biomedical ultrasound research Miguel Bernal, Ph.D.
9:00 a.m.	Ultrasound Practice in Maternal-Fetal Medicine Mari Charisse (Charisse) Trinidad, M.D.
9:15 a.m.	Microbubble-Therapeutics Dual System Conjugated by Click Chemistry for Anti-Cancer Treatment Xifeng Liu, Ph.D.
9:30 a.m.	Vibro-acoustic method for detection of osteopenia and osteoporosis Siavash Ghavami Roudsari, Ph.D.
9:45 a.m.	Refreshment Break & Poster Presentations
10:15 a.m.	Chicken Embryo Tumor Xenografts: A High-Throughput “Living Flow Phantom” for Anti-angiogenic therapy evaluation with Ultrasound Vascular Imaging Matthew Lowerison, Ph.D.
10:30 a.m.	Ultrasound findings of BRAF inhibitor induced panniculitis in patients with stage IV metastatic melanoma. Katrina N. Glazebrook, M.B., Ch.B.
10:45 a.m.	A Preliminary Study of Using Machine Learning to Reduce Biopsies of Thyroid Nodules Based on Ultrasound Images Zeynettin Akkus, Ph.D.
11:00 a.m.	Shear Wave Elastography and Median Nerve Stiffness: A Mechanical Validation study Verena Schrier, M.D.
11:15 a.m.	Ultra-sensitive Ultrasound Microvessel Imaging for Characterizing Benign and Malignant Breast Tumors Ping Gong, Ph.D.

11:30 a.m.	Attenuation Measuring Ultrasound Shearwave Elastography (AMUSE) Ivan Z. Nenadic, Ph.D
11:45 a.m.	Comparison of the shear wave velocities in anastomosis between excised pig aorta, Dacron, PTFE and custom made arterial models using shear wave elastography Miguel Bernal, Ph.D.
12:00	Lunch Break & Poster Presentations
1:00 p.m.	In vivo assessment of interstitial fibrosis in renal allografts using quantitative ultrasound – comparison with estimated glomerular filtration rates Matthew W. Urban, Ph.D.
1:15 p.m.	Non-invasive small vessel imaging of human thyroid using motion-corrected Power Doppler Imaging: Preliminary <i>in vivo</i> study Rohit Nayak, Ph.D.
1:30 p.m.	Non-invasive Evaluation of Bladder using Acousto-Elasticity Analysis Saba Adabi, Ph.D.
1:45 p.m.	Cardiovascular Elastography Ivan Z. Nenadic, Ph.D.
2:00 p.m.	Discussion and Closing Remarks Matthew R. Callstrom, M.D., Ph.D., James F. Greenleaf, Ph.D.
2:30 p.m.	Closing & Adjourn