

Please join us

COBRE Oklahoma Center of Medical Imaging for Translational Cancer Research (OCMICR)

Research Cores Workshop Series

Open House: Advanced Imaging Technologies, Analytical Instrumentation, and AI-Driven Image Analysis

Presenters: Drs Chongle Pan, Yuye Ling, Rupa Haldavnekar and Jian Zhao

Day/Time: Wednesday, August 26, 2026, 3:00–6:00 p.m.

Venue: Stephenson Research and Technology Center (SRTC)
101 David L. Boren Blvd., Norman, OK 73019



Explore cutting-edge imaging and analytical technologies that are advancing biomedical discovery and clinical translation. This workshop will showcase innovative equipment, imaging modalities, and AI-driven analytical tools available to support interdisciplinary research.

Live demonstrations and laboratory tours in the medical imaging and analytical instrumentation laboratories:

❖ **3:00-3:30 PM | Dr. Haldavnekar (1145F)**

Renishaw Qontor Confocal Raman Microscope

Label-free Raman spectroscopy for high-resolution molecular analysis of cells, tissues, extracellular vesicles, and biofluids. Applications include biomarker discovery, cancer research, and diagnostic development.

❖ **3:30-4:00 PM | Dr. Ling (1145C)**

1 MHz Desktop Swept-Source Optical Coherence Tomography (OCT) System

Non-invasive mesoscopic imaging with millimeter-scale field of view and micrometer-scale resolution for a wide range of biomedical and clinical applications.

❖ **4:00-4:30 PM | Dr. Zhao (1145A)**

Mid-infrared Photothermal Chemical Microscopy

Label-free, molecule-specific 2D and 3D imaging with subcellular resolution, enabling cancer metabolism and neuroscience research.

❖ **4:30-5:00 PM | Dr. Pan & Haoyang Cui (BR Room)**

Artificial Intelligence and Machine Learning for Biomedical Image Analysis

Demonstration of AI and machine-learning approaches for biomedical image analysis.

❖ **5:00-6:00 PM | Interactive Roundtable Discussion — Drs. Jo and Tang (BR Room)**

This event will offer hands-on exposure to the facility's state-of-the-art imaging capabilities and highlight the resources available to support interdisciplinary research across the University of Oklahoma's Norman and Health campuses. Researchers from all disciplines are encouraged to attend and explore how these technologies can advance their scientific investigations.

If you have any questions, please contact Dr. Ling at yuye.ling@ou.edu or Dr. Haldavnekar at rupa@ou.edu or Dr. Zhao at jian.zhao@ou.edu or Dr. Jo at javierjo@ou.edu or Dr. Tang at qtang@ou.edu or Dr. Pan at cpan@ou.edu or Dr. Li at yhli1500@ou.edu