

COBRE Medical Imaging Technology Development Core (MITDC)

Introduction

The Core was built based on the OU Advanced Medical Imaging Center, which has been supported by both the University of Oklahoma (OU) Norman campus and the Stephenson Cancer Center of OUHSC campus since 2012. MITDC provides a unique research service and supporting capability to enhance the overarching goal of this COBRE. It is not merely a collection of imaging equipment in a distinct space, other than allows us fully network our current research expertise to better support translational cancer research using medical imaging technology to benefit patients in the future.

Our MITDC aims to:

- (1) Develop a Supportive Infrastructure to Facilitate Bench Top to Bedside Research;
- (2) Develop New Investigative Imaging Tools and Testbeds to Support COBRE Projects;
- (3) Develop and Test New Quantitative Imaging Feature Analysis Software Tools.

Facility & Equipment

Phase Sensitive Breast Tomosynthesis (PBT) System



Andor BC43 Benchtop Spinning Disk Inverted Confocal Microscope



Vevo F2 Ultrasound and Photoacoustic Imaging System



Service

Medical Imaging Scanning Service

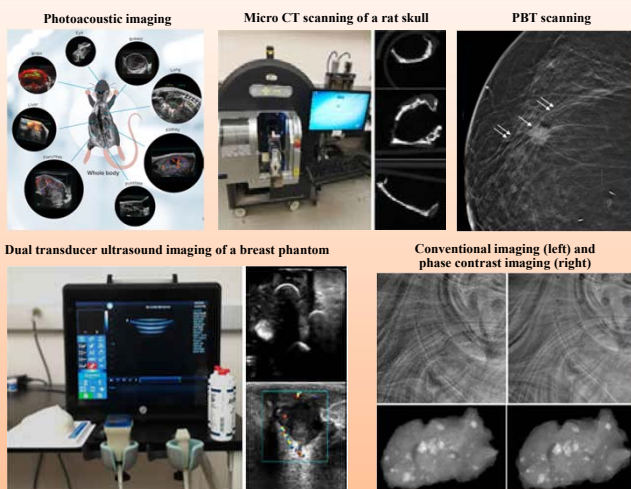


Image Processing Service

GUI tools for lesion segmentation (top) and feature computation (bottom)

