The Biomedical Imaging Core offers leading edge instrumentation to meet the microscopy and imaging needs of researchers at the COM-PHX and in the Valley.

The core has multiple microscopes that address a variety of different research needs and applications. Core instrumentation includes the following:

1) A motorized Zeiss Axio Imager M2 upright fluorescent microscope equipped with filters for DAPI, FITC, Rhodamine, and far red dyes. The microscope is capable of automated x-y-z scanning and tiling.

2) A ZEISS LSM710 inverted confocal microscope that offers multiple laser lines for imaging multi-color fluorophores and is equipped with a temperature control chamber and CO2 supply for time-lapse imaging.

3) An Olympus FV MPE RS Apollo system equipped with dual two photon laser lines (690-1300 nm tunable and 1040 nm fixed), allowing simultaneous imaging of multiple fluorophores in vivo. The microscope is equipped with high resolution galvo scanner, a resonant scanner for fast dynamics imaging, and a stim scanner.

The core also provides access to a cytospin centrifuge for sample preparation, along with a workstation for post-acquisition processing and analyses including deconvolution, colocalization and quantitation.

**CONTACT**

**DR. KURT GUSTIN**
602-827-2155
KGUSTIN@EMAIL.ARIZONA.EDU

**DR. SHENFENG QIU**
602-827-2173
SQIU@EMAIL.ARIZONA.EDU