Barrow Neurological Institute and Arizona State University share a mission of advancing biosciences across the state of Arizona. That’s why we teamed up in 2009 to launch the Barrow-ASU Center for Preclinical Imaging, a core facility located at the Barrow Neuroimaging Innovation Center in the heart of Phoenix.

The Center provides Phoenix-area researchers with access to advanced imaging modalities, allowing them to examine the in vivo anatomy and function of their preclinical models. Additionally, our Center offers professional expertise to help researchers develop and implement their imaging protocols.

**MRI Techniques**

The Bruker Biospec 7-Tesla MRI at the Center for Preclinical Imaging is capable of performing a suite of imaging techniques that explore many tissue characteristics. A few of the routine techniques include:

- High-Resolution Structural Imaging
- Resting State Functional MRI (fMRI)
- Dynamic Susceptibility Contrast (DSC) Perfusion Imaging
- Dynamic Contrast Enhanced (DCE) Imaging
- Diffusion Tensor Imaging (DTI)
- Time of Flight (TOF) Angiography
- Cardiac Imaging

**Other Preclinical Imaging Resources**

- Bruker Albira Si MicroPET
- Bruker Skyscan MicroCT
- Xenogen IVIS Spectrum®