

# Preclinical Imaging

FRED HUTCHINSON CANCER RESEARCH CENTER  
RESEARCH ADMINISTRATION  
SEATTLE, WA • 501(C)(3) NONPROFIT



The Preclinical Imaging core provides state-of-the-art in vivo imaging technology and infrastructure to support basic and preclinical research. We offer a diverse array of imaging modalities, including ultrasound, optical imaging, MRI, micro-CT and multiphoton microscopy.

Our staff includes experienced imaging specialists who train users on equipment operation, consult on study design, and image analysis, and perform imaging studies and analysis on request.

## Vevo F2 Ultrasound

Our Vevo F2 ultrasound is equipped with two transducers that send ultrasonic waves through the imaging sample and detect reverberations that are compiled to form an image. This is used for applications including imaging of rodents, early monitoring of tumor growth, and image guided injections for minimally invasive orthotopic tumor models and targeted therapy.

The Vevo F2 can perform:

- B mode imaging
- 3D imaging
- Power Doppler
- Nonlinear Contrast Imaging

These features allow for anatomical and vascular visualization and quantification of volume and vascularity within a defined anatomical structure.

Spatial resolution limit: ~ 30 microns -10 mm  
Image acquisition time: milliseconds – seconds  
Transducers: UHF29x, UHF57x  
Analysis software: Vevo lab



### LEARN MORE

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