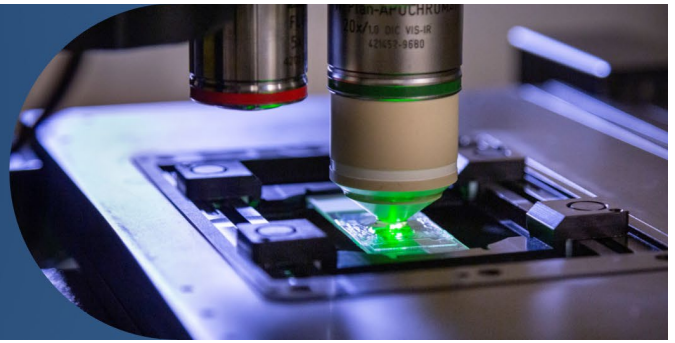


Preclinical Imaging

Research Administration
Seattle, WA • 501(c)(3) Nonprofit



Fred Hutch's Shared Resources are catalysts for lifesaving discoveries. This uniquely centralized program of 15 specialized core facilities and scientific services drives advances by integrating dedicated experts and cutting-edge technologies across the entire research pipeline, from basic science to clinical trial.

Quantum GX2 Micro-CT Imaging System

The Quantum GX2 micro-CT imaging system performs high-speed, low-dose scanning to allow for longitudinal in vivo imaging across multiple species, as well as high-resolution ex vivo scanning. Our system includes multiple X-ray filters to optimize imaging protocols and can perform two-phase retrospective respiratory and cardiac gating.

CT images can be co-registered with images from the IVIS Spectrum optical imaging system to yield combined CT and bioluminescence or fluorescence images. This provides the flexibility and performance needed to gain greater insight into disease progression and treatment. The additional use of exogenous contrast agents can provide further distinction for soft-tissue imaging.

Current micro-CT users study bone diseases, whole-body nanoparticle proliferation, and lung cancer development.



Spatial resolution limit: ~100 μm

Image acquisition time: seconds – minutes

Analysis software: QGX2 viewer and analysis pack, Analyze 14.0 or other custom software specific for research (e.g. ImageJ or microDICOM)

LEARN MORE

Preclinical Imaging
206.667.3141
preclinicalimaging@fredhutch.org

