

Washington University School of Medicine Small Animal Cancer Imaging (SACI)

Optical Imaging Core

Website: <https://siteman.wustl.edu/research/shared-resources-cores/small-animal-cancer-imaging-saci/>

Optical Imaging Equipment

- Two PerkinElmer IVIS Bioluminescence Imaging Systems
- LiCor Pearl Near-Infrared Fluorescence Imaging System
- PerkinElmer FMT 4500 3D Near-Infrared Fluorescence Imaging System
- Bruker Multispectral FX Pro Multimodal BLI/Fl/X-ray Imaging System
- ART Optix MX3 Time-Domain Diffuse Optical Imaging System

Facility Support Equipment and Resources

- Isoflurane anesthesia stations
- Biosafety hood and CO2 incubator
- Image-analysis computers and software

Services

- Bioluminescence imaging for sensitive, high-throughput, longitudinal monitoring of tumor growth using luciferase reporters
- Fluorescence intensity and lifetime in vivo imaging using reporter proteins and injectable agents
- Image analysis
- Consultation on experimental design
- Assistance with grant and manuscript submissions
- Injection of cells or reagents into animals
- Cell culture
- Reporter plasmids and cells for use in optical imaging

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