

## Services and Operation

- Provide state-of-the-art multimodality imaging for translatable studies in animal models and support INDs for transition to human imaging studies.
- Provide consultation and training to UAB Cancer Center members for molecular, functional, and anatomical imaging in preclinical cancer models.
- Assist users with unique imaging needs for multiple species.
- Develop novel imaging technologies and acquire new instruments.
- Offer affordable preclinical imaging services which can be translated into clinical applications with ease.

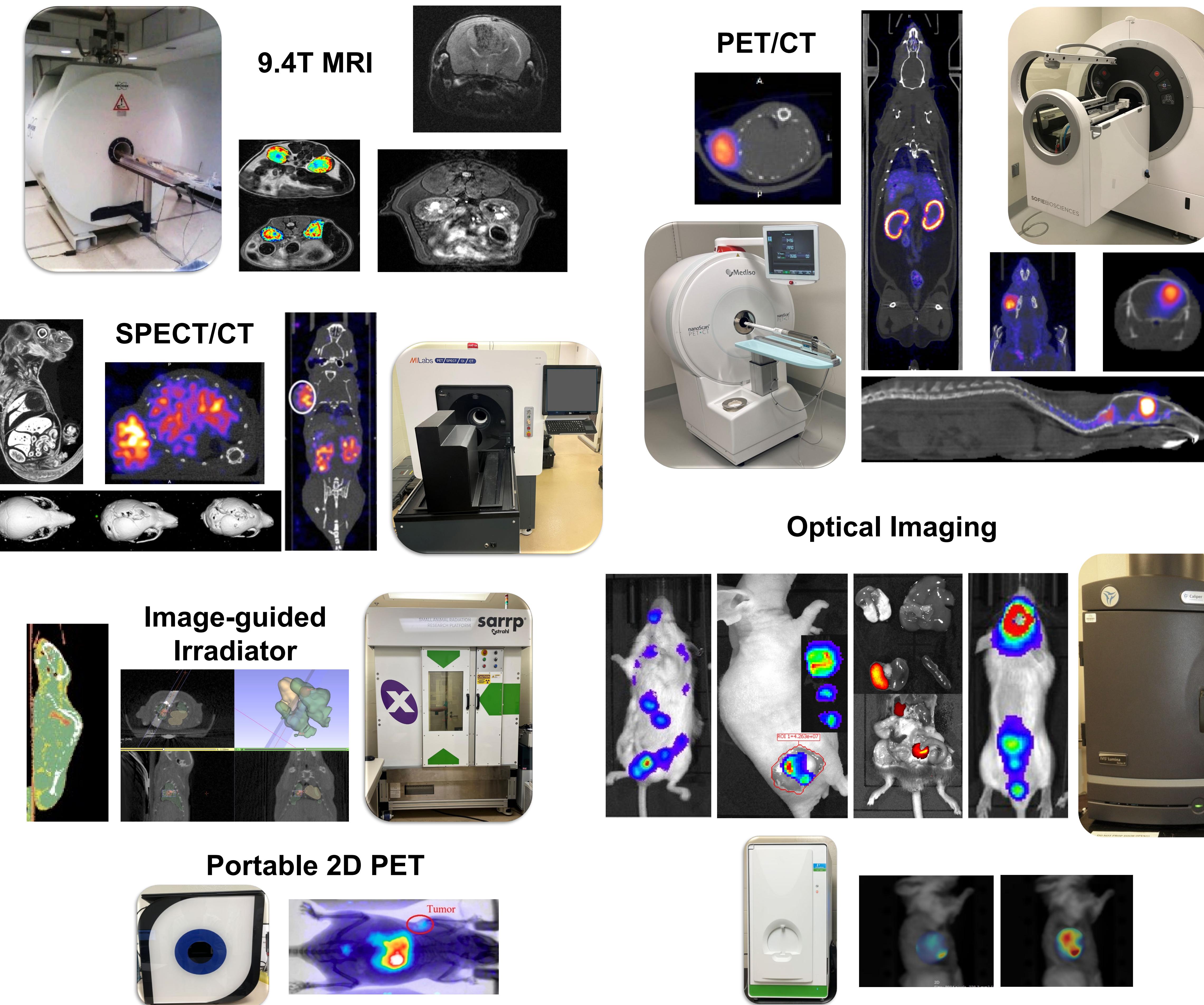
## Researcher Benefits

- An IACUC umbrella protocol is provided to reference for ease of incorporating preclinical imaging into in vivo research studies.
- Multiple modalities may be utilized to generate structural and functional results.
- Novel models may be imaged using specialized protocols developed with core assistance.
- Multiple locations for instrumentation and animal housing allow researchers to have more flexibility for their imaging studies.
- Collaboration with the UAB Cyclotron Facility streamlines nuclear studies.
- Repeated imaging studies are cost-effective because non-invasive data is collected in the same animals over time without termination.
- The entire animal is examined, providing information that would not otherwise be obtained.



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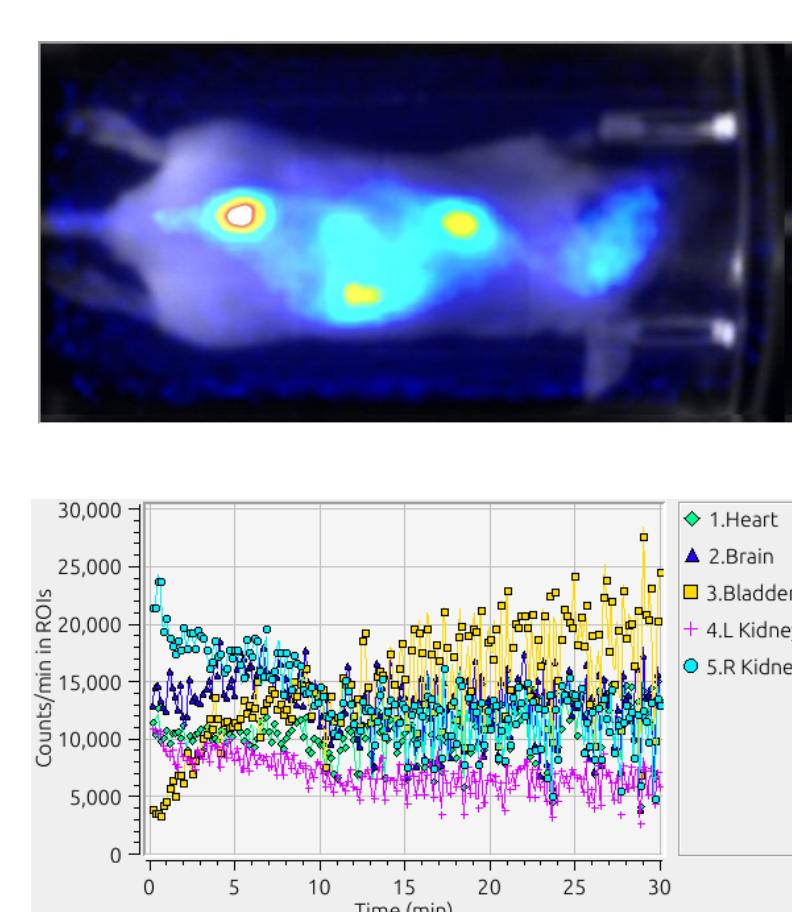
## Preclinical and Multimodality Imaging



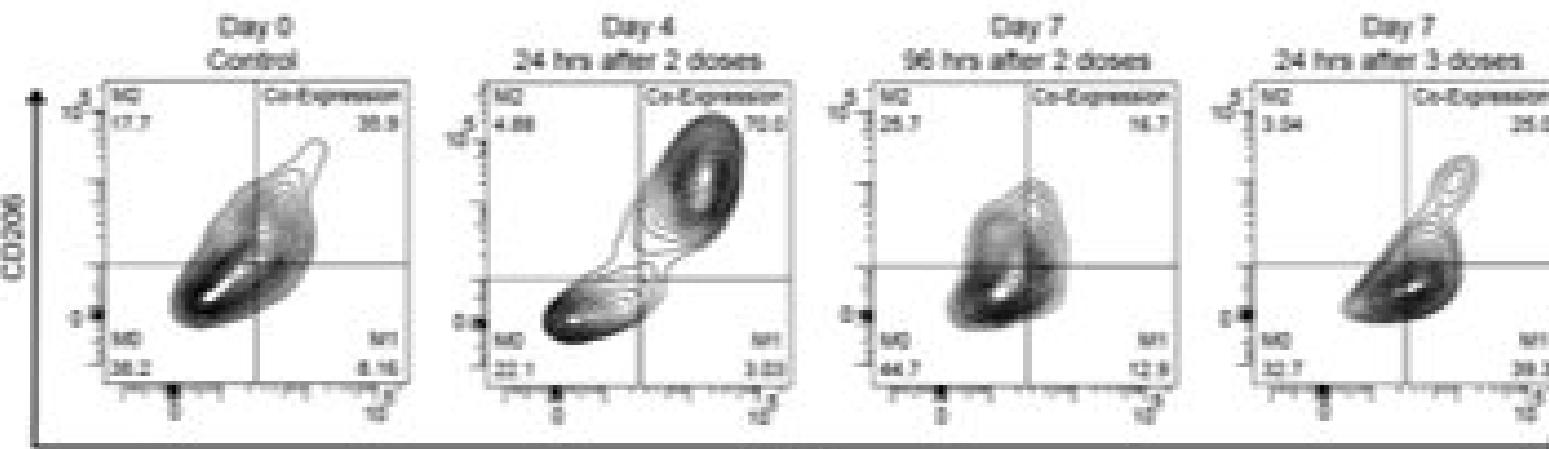
## Biological and Supportive Assays and Image Analysis

- The core offers support for validating imaging data via secondary means.
- Additional parameters can be analyzed, even on radioactive samples.
- Autoradiography, flow cytometry, and biodistributions are examples of these options.

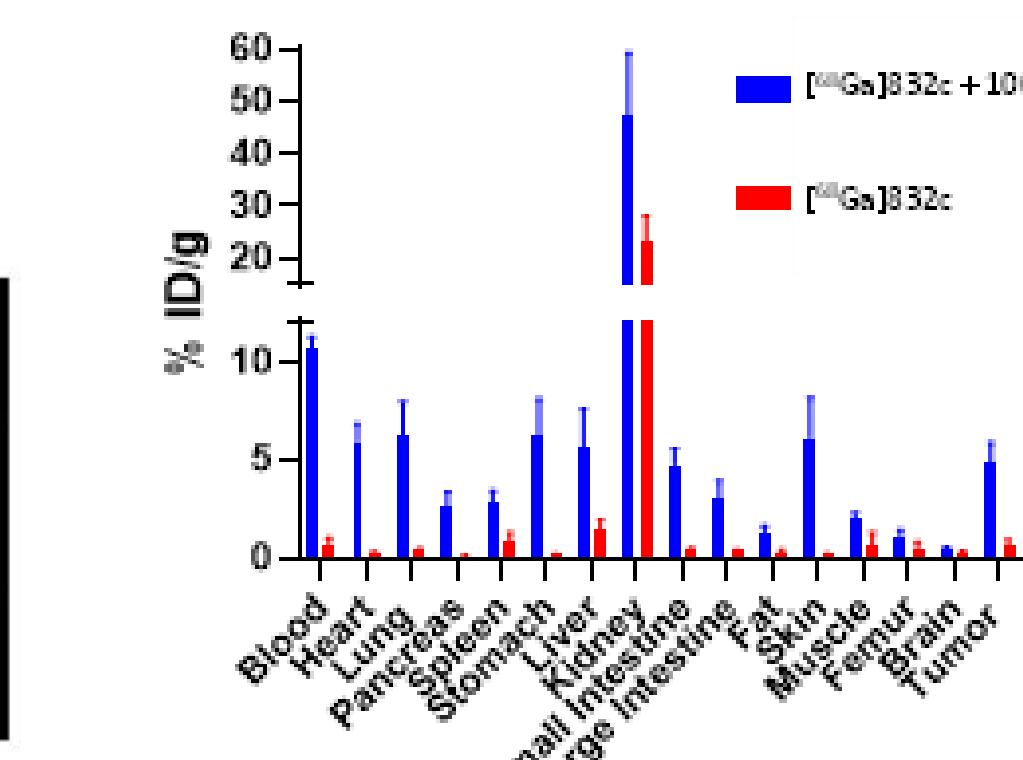
### Analysis support



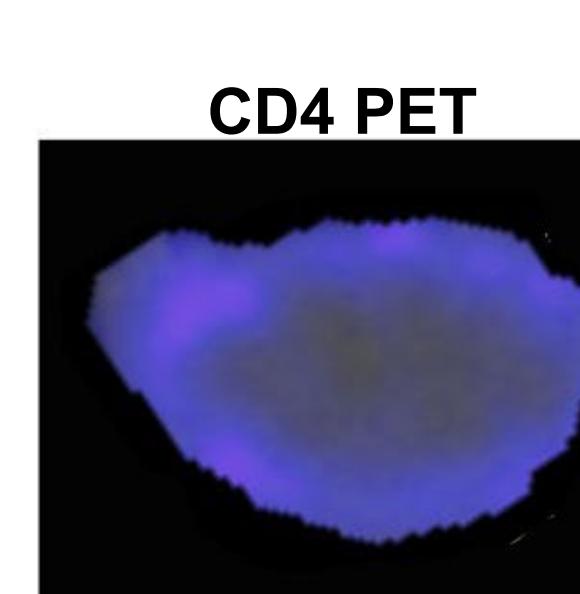
### Radioactive flow cytometry



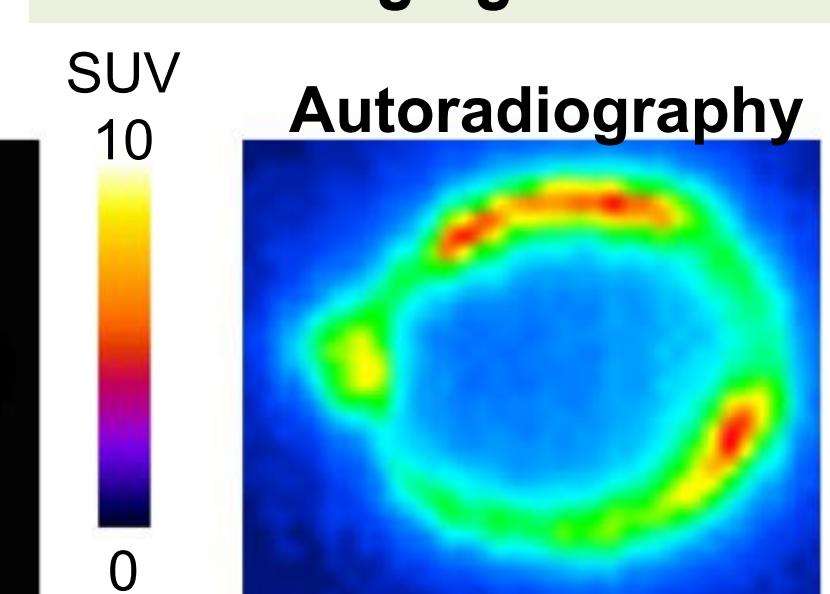
### Biodistribution post Imaging



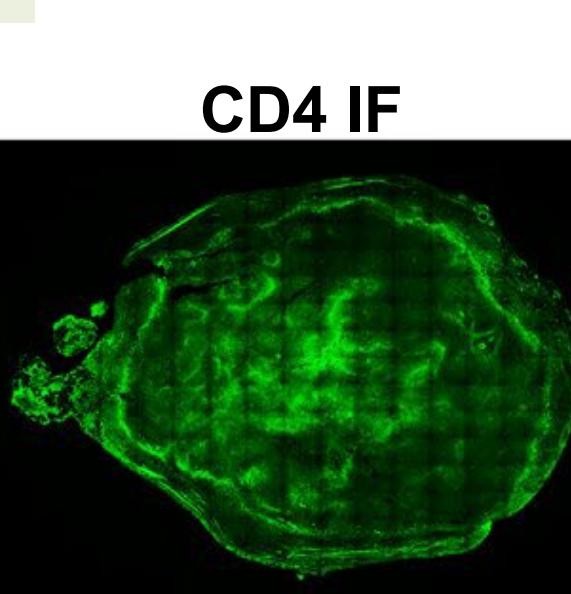
### CD4 PET



### Post imaging autoradiography



### CD4 IF



## Highlights

### Improved Imaging Services:

- Installation of new Mediso Nanoscan in December 2024 to accommodate increased molecular imaging use.
- U-SPECT/CT/OI system upgraded to VECTo7CT<sup>UHR</sup>OI in April 2025, allowing for the imaging of high energy isotopes which are usually limited to PET imaging.
- Expansion of Wallace Tumor Institute imaging suite to accommodate additional core needs, instrumentation, and safety.

### Project Development:

- Collaborate with the UAB Cyclotron Facility for specialty radiolabeling and conjugation
- Test the use of newly developed radiopharmaceuticals
- Instrument modification to allow unique animal research and experimental conditions
- Personal consultation available to customize unique experiment designs

## Fee Schedule

MODALITY	COST	INSTRUMENT
Bioluminescence	\$65/hour, No substrate \$85/hour, Core substrate	IVIS Lumina III
Fluorescence	\$65/hour	Custom Leica Microscope with Nuance spectral camera
Ultrasound	\$80/hour	Vevo 660
MRI	\$210/hour	Bruker 9.4T
SPECT/CT	\$210/hour + dosing	U-SPECT <sup>4</sup> pCT
PET/CT	\$210/hour + dosing	Sofie GNEXT PET/CT
Specialty Fluorescent Imaging	\$105/hour	Li-Cor Pearl Impulse
Flow Cytometry	\$40/hour, non-assisted \$55/hour, assisted	Luna/SPY Systems
SARRP Irradiator	\$150/hour	FMT 4000
Staff Image Analysis/Assistance	\$50/hour	Attune Flow Cytometer
		Xstrahl SARRP 200 Irradiator



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