

NEWS AND UPDATES

Introducing Our New Co-Director



Please join us in welcoming our newest facility member, Dr. Anna Sorace. She joins Radiology as Assistant Professor and Co-Director of the Small Animal Imaging Facility in the Advanced Medical Imaging Research Division and holds a joint appointment with the Department of Biomedical Engineering.

Dr. Sorace completed her Bachelor of Science in Biomedical Engineering at Mississippi State University, and her Ph.D. in Biomedical Engineering at UAB. She returns to UAB from

The University of Texas Austin Dell Medical School, where she was an Assistant Professor in the Department of Diagnostic Medicine and Biomedical Engineering, and member of the Livestrong Cancer Institutes.

Dr. Sorace is a translational researcher with her area of focus in early detection and treatment evaluation of cancer. Specifically, her research goals include identifying biomarkers for early response to neoadjuvant and

adjuvant cancer treatment and utilizing quantitative imaging to improve drug delivery of current therapies.

Dr. Sorace is currently the Principle Investigator on an ACS Research Scholar Grant for quantitative imaging to personalize therapy in HER2+ breast cancer.

Newsletter Release

In 2019, the Small Animal Imaging Facility will begin distributing a digital newsletter to all users that will consist of pertinent information and updates relative to the facility. Please make sure that your contact information is up to date so that you will not miss out on any changes that will be taking place in the future.

Thank you all for your continued support and use of our core facility! We hope to better assist you and fulfill your imaging needs in the new year.

7 Publication References

If you have received services through this core for grants and publications, please acknowledge support by citing UAB Comprehensive Cancer Center's Preclinical Imaging Shared Facility Grant P30CA013148.

For published data obtained with the IVIS Lumina III systems, please cite S10 intrumentation grant **1S10OD021697**.

7 Photo Submissions

Submit images that you would like featured in the newsletter to **erikanmc@uab.edu**. Please include Pl's name, modality, brief experiment summary, and species.

FEATURED IMAGE OF THE QUARTER



PFOA UPTAKE IN PREGNANT MOUSE

Summed PET/CT maximal intensity projection showing the uptake of a fluorine-18 radiolabeled environmental toxin, perfluorooctanoic acid (PFOA), between 0-5min after injection in a pregnant CD-1 mouse at 18 days gestation. These toxins tend to migrate to tissues of high perfusion, and, in this case, can be seen in the placentae resembling a "string of Christmas lights" around the mid-section of the mouse. **Image acquired by Dr. Suzanne Lapi's lab using Sofie GNEXT PET/CT.**

FEATURED INSTRUMENT



SOFIE BIOSCIENCES GNEXT PET/CT

The GNEXT PET/CT is a high performance and high flexibility preclinical in vivo imaging system to support single or multi-mouse imaging, rat, and small non-human primate imaging workflows. The scanner is designed to permit the visualization of specific metabolic and physiological processes with high sensitivity and spatial resolution. Various clinically approved and experimental radiopharmaceutical probes are available to characterize cellular processes such as metabolism, hypoxia, and angiogenesis in both normal and diseased tissues.

For more information about available probes, please visit **UAB's Cyclotron Facility** website.

OUSEFUL LINKS

7 Pre-Clinical Imaging Calendar

Check for any available time slots for imaging modalities.



7 Training Forms

Download training material for submission prior to scheduling imaging.

Perkin Elmer Resources
Educational material related to the IVIS Lumina III.

Department of Radiology Homepage for UAB's Department of Radiology.

DID YOU KNOW?

The IVIS Lumina has different stage heights for different views.

The **IVIS Lumina III** is capable of reaching a maximum field of view (FOV) of 24 cm. This is large enough to view five mice in one image! However, if you require a closer view, the IVIS Lumina supports a FOV as low as 5 cm.

CONTACT US

MRI Ultrasound	PET/CT	OPTICAL	SPECT/CT
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SLOCATIONS

Volker Hall Laboratory

1670 University Blvd. Rm. G082G, 975-6465 WTI Imaging Suite WTI 630D

MRI 9.4T Imaging Suite LHL B15, 934-0265

Volker Hall Imaging Suite VH B21A, 975-6466

Modality	Cost*
Bioluminescence	\$7/mouse OR \$55/hour (reagent dependent)
Fluorescence	\$55/hour
Ultrasound	\$100/hour
MRI	\$125/hour
SPECT/CT	\$100/hour + dosing
PET/CT	\$200/hour + dosing
Gamma Camera	\$20/hour + dosing
Specialty Fluorescent Imaging	\$100/hour
Staff Image Analysis	\$40/hour



Labor charges are **\$40 per hour** (for each personnel), when assisted during imaging.

Prices effective 11/1/2018.

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Training is available on some modalties, **free of charge**.

Additional Details

Modality	Instrument	
Bioluminescence	IVIS Lumina III	
	IVIS Lumina III	
Fluorescence	Custom Leica microscope with Nuance CRI spectral camera	
Ultrasound	Vevo 660	
MRI	Bruker 9.4T	
SPECT/CT	X-SPECT system	
PET/CT	Sofie GNEXT PET/CT	
Gamma Camera	Picker Camera with Numa computer	
Specialty Elucroscont Imaging	Li-Cor Pearl Impulse	
	Luna/SPY Systems	