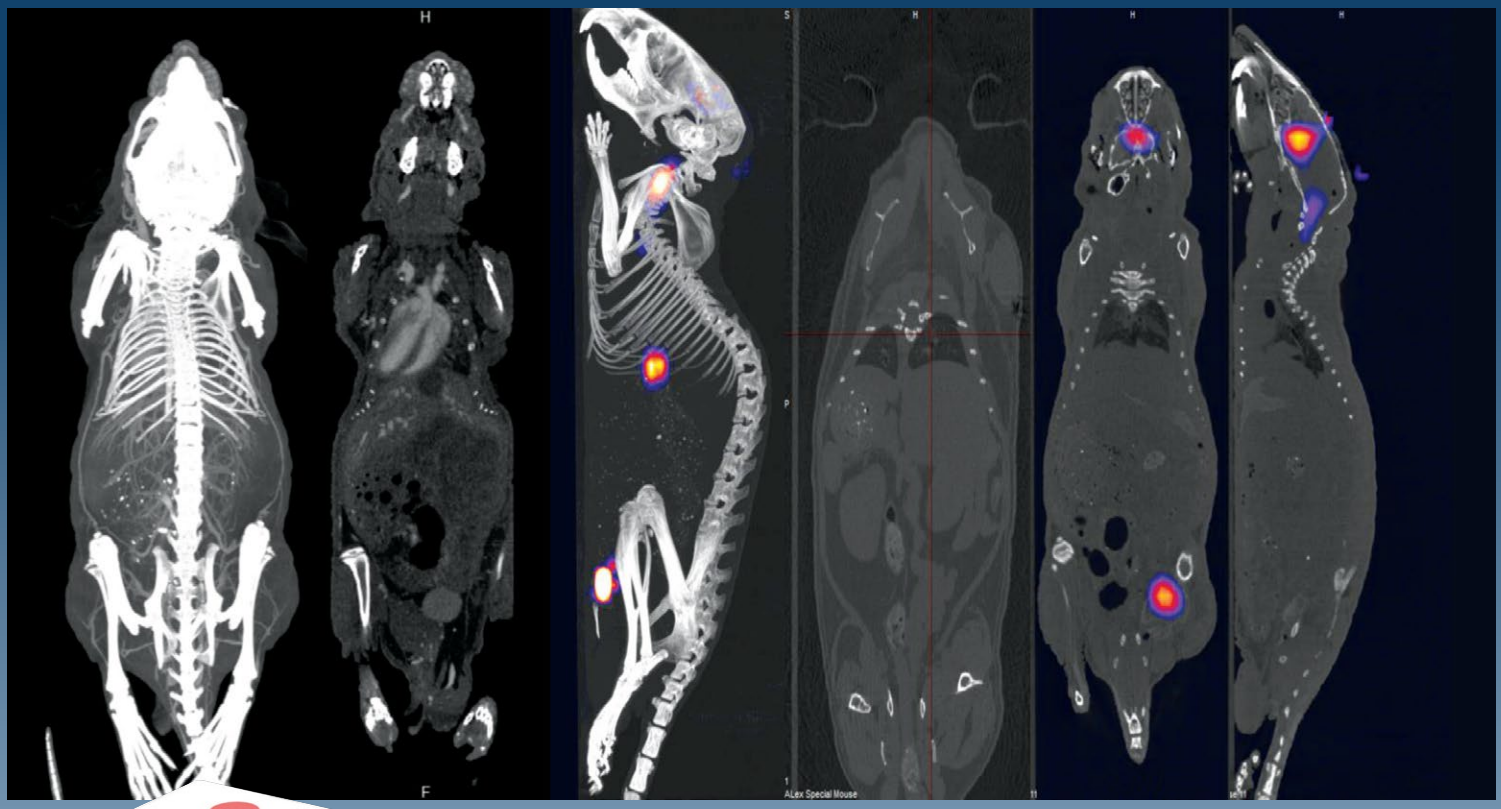
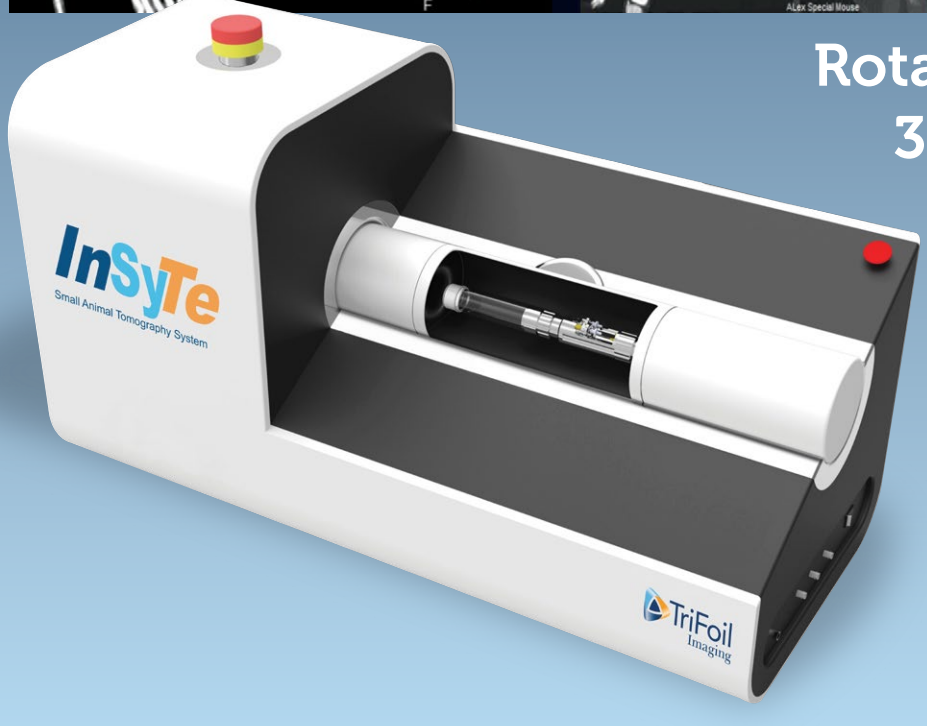
InSyTe™ FLECT/CT

Radioisotope-free, 3D molecular imaging
with high quality anatomical reference in a single platform





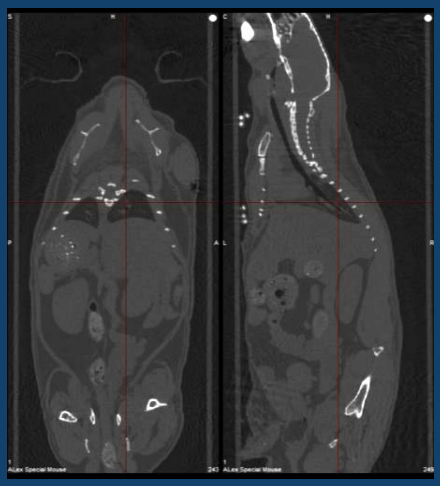
Rotating gantry enables 360° data acquisition for true 3D optical imaging

TriFoil Imaging

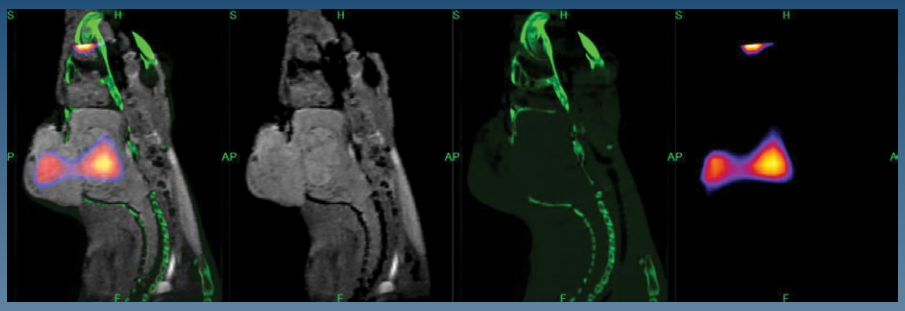
www.trifoilimaging.com

InSyTe™ FLECT/CT

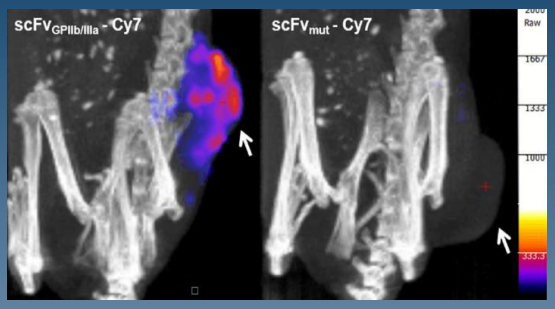
- FLECT *(Fluorescence Emission Computed Tomography)* is the optical analog to PET/SPECT
- Near infrared (NIR) fluorescence for deep tissue imaging (mouse models)
- Inline micro CT system enables anatomical reference and co-registration with FLECT
- Clinical quality soft tissue contrast from CT
- 5 selectable X-ray filters for beam hardening reduction
- InSyTe CT available; upgradeable to FLECT/CT
- DICOM image output for co-registration with other image data



CT images of a mouse showing clinical quality soft tissue contrast from InSyTe. The lungs, heart, liver, and kidneys are easily distinguishable.



Using InSyTe FLECT/CT, the distribution of a novel combination theranostic conjugate was monitored in a preclinical model of glioblastoma. FLECT and CT images were co-registered with MR images from the same mouse. Bioorg. Chem. Med. Lett. 2018: 27(16) p. 3925-3930



InSyTe FLECT/CT enabled assessment of the ability of an activated platelet-targeting antibody labeled with the fluorescent dye Cy7 to target and image tumors. Theranostics. 2017: 7(10) p. 2565-2574

FEATURES AND SPECIFICATIONS	FLECT/CT	CT (STAND-ALONE)
3D Fluorescence Tomography	Yes	No
Integrated micro CT	Yes	Yes
Clinical quality soft tissue contrast from CT	Yes	Yes
Animal Models	Mice	Mice and Small Rats
Upgradeable to FLECT/CT	---	Yes
Fluorophore wavelength range	Near infrared (NIR)	---
Excitation wavelengths (nm)	642, 705, 730, 780	---
Emission filters (nm)	695/20, 710/45, 803/60, 813/40, 853/45	---
Physical Dimensions	135 cm x 84 cm x 65 cm; 165 kg	135 cm x 84 cm x 65 cm; 155 kg

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