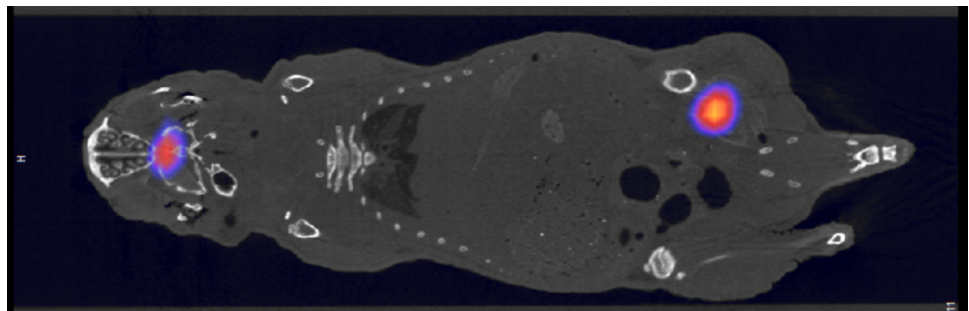
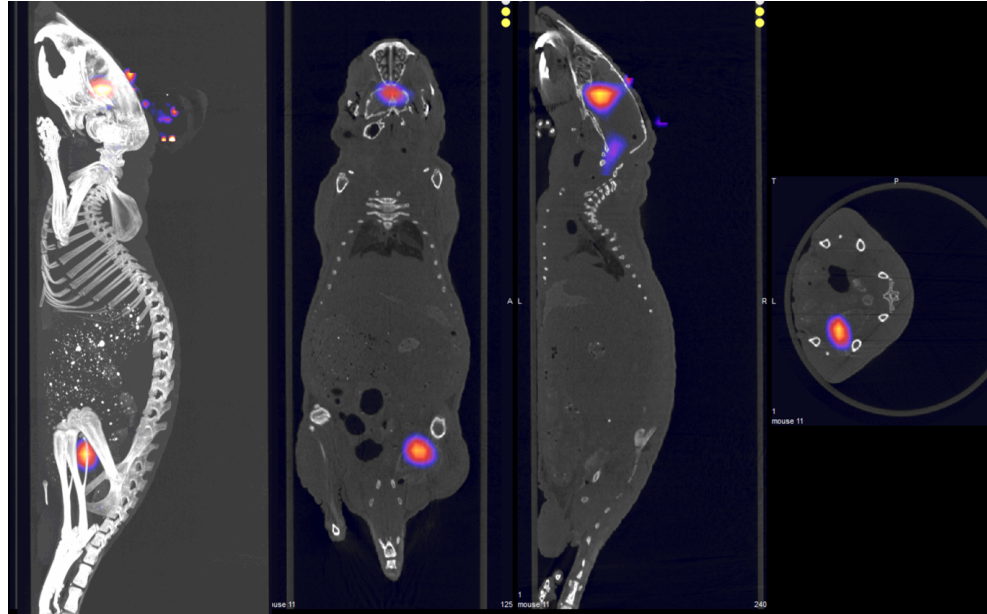
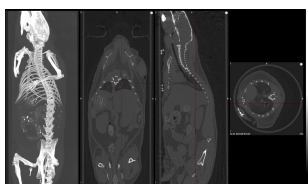
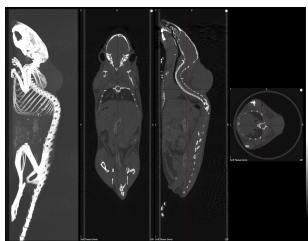
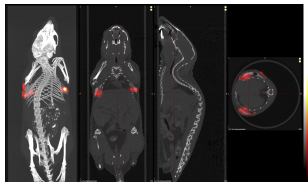
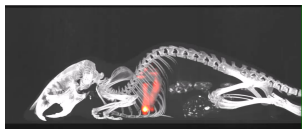


InSyTe FLECT/CT

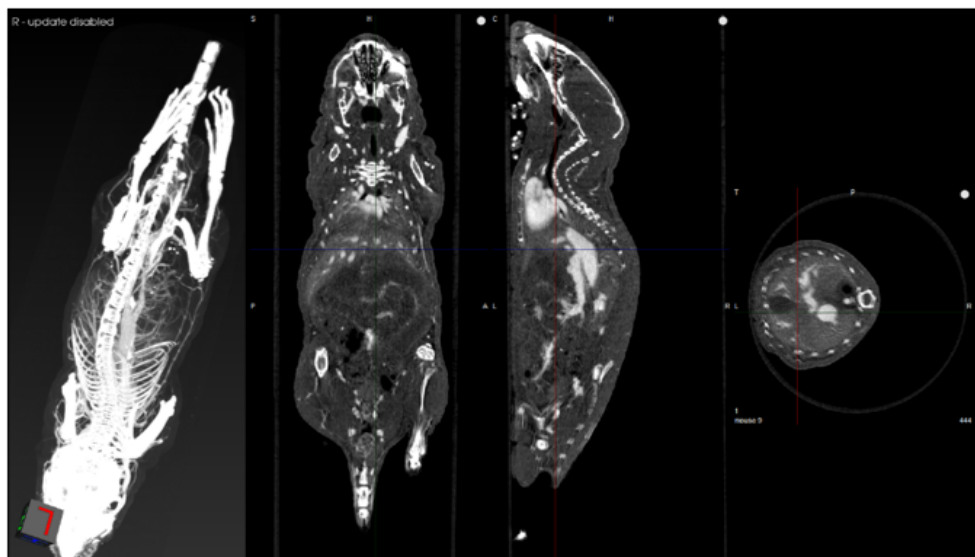
Our patented fluorescence imaging technology provides the only TRUE 360 degree optical and X-Ray computed tomographic scan



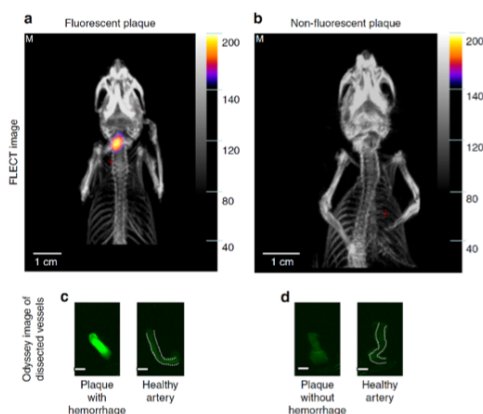


Key Features:

- True 360° 3D fluorescence tomography
- State-of-the-art 3D image reconstruction engine
- Deep tissue imaging capability (up to 2.5 cm)
- Semi-quantitative molecular optical imaging
- 640nm to 850nm imaging range (near infrared)
- Inline X-ray CT with clinical quality soft tissue contrast
- Possible co-registration with any tomographic imaging modality
- Bench top system (120cm x 80cm x 80cm)
- Gas anesthesia inlet/outlet ports



Advancing Preclinical Imaging Technologies



Research application: -
Cardiovascular disease

Summary: Using the InSyTe FLECT/CT, these researchers monitored a preclinical model of atherosclerotic plaques, with the goal of developing plaque-stabilizing drugs.

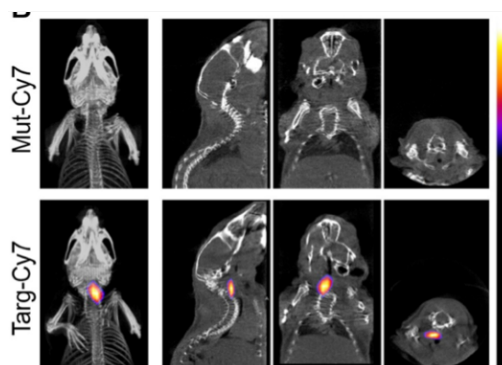
Htun et al., Nature Communications 2017: 8, 1, 75-90; Near-infrared autofluorescence induced by intraplaque hemorrhage and heme degradation as marker for high-risk atherosclerotic plaques

Research application: -

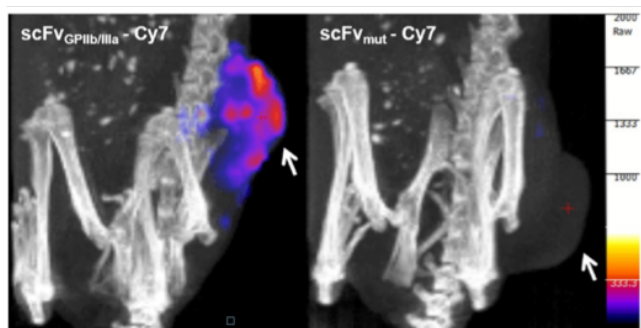
Biomarker development

Summary: These researchers used the InSyTe FLECT/CT to assess the development of a novel fluorescent probe to study mechanisms of thromboembolic diseases.

Lim et al., Theranostics. 2017: 7, 5, p. 1047-1061;



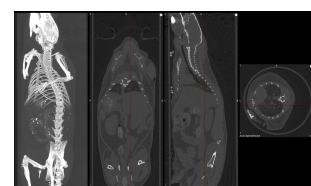
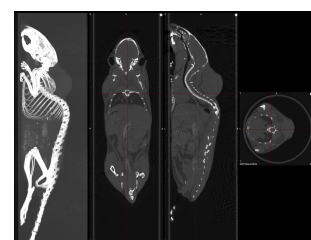
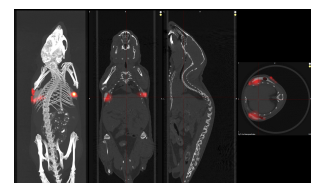
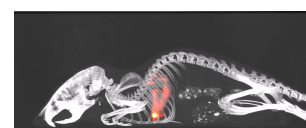
A Unique Recombinant Fluoroprobe Targeting Activated Platelets Allows In Vivo Detection of Arterial Thrombosis and Pulmonary Embolism Using a Novel Three-Dimensional Fluorescence Emission Computed Tomography (FLECT)

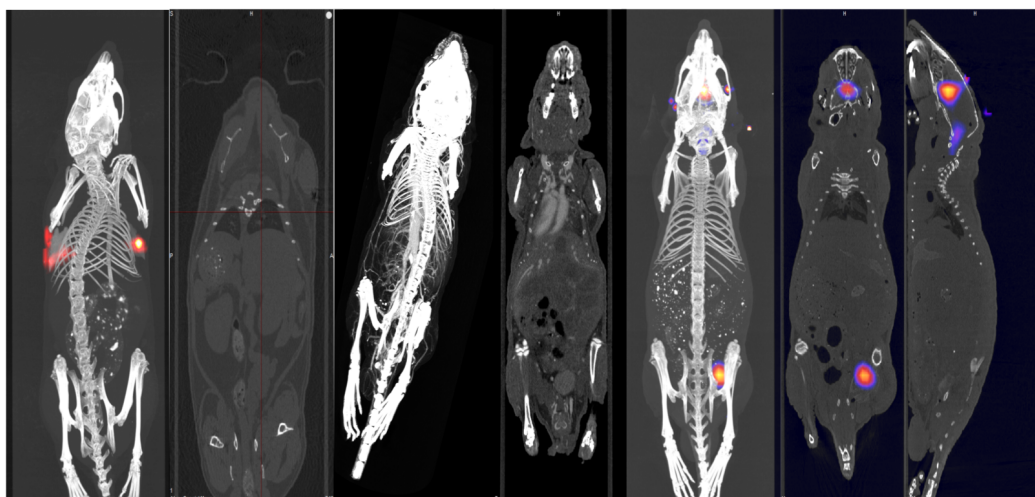
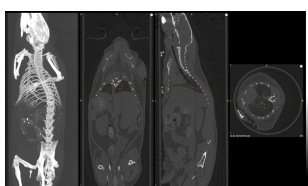
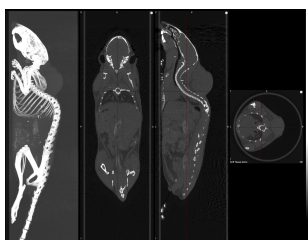
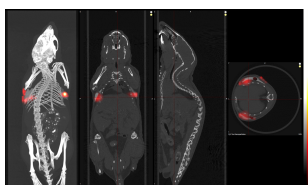
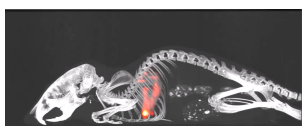


Research application: Cancer detection

Summary: With the InSyTe FLECT/CT, this research group assessed the ability of an activated platelet-targeting fluorescent probe to image tumors.

Yap et al., Theranostics. 2017: 7, 10, p. 2565-2574; Targeting Activated Platelets: A Unique and Potentially Universal Approach for Cancer Imaging





FLECT	
3D Fluorescence Tomography	Yes
Integrated small animal X-Ray CT	Yes
Fluorescence detector type	Avalanche photodiode (APD)
Number of detectors	48
Slice thickness	1mm
Optical FOV (cm)	140mm x 40mm
Fluorophore wavelength range	Near infrared (NIR)
Example fluorophores	Cy5, Cy5.5, Cy7, Alexa Fluor 647, Alexa Fluor 680, Alexa Fluor 750, etc.
Emission filters (nm)	695/20, 710/45, 803/60, 813/40, 853/45
Excitation wavelengths (nm)	642, 705, 730, 780
In-line CT	
Clinical quality soft tissue contrast	Yes
Spatial resolution	40µm
X-Ray tube	30-50kV

Information and specification are subject to change without notice

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