High Frequency Ultrasound Imaging: Cardiac & Cancer Applications in Preclinical Research

Visualizing Cancer: In Vivo real-time molecular imaging of nanoparticles, dyes and contrast agents

Visualize Angiogenesis
Percent vascularity = 11.22%

Biomarker Detection
VEGFR detection through targeted microbubble imaging in a hind limb tumor

Nanoparticles and Molecular Imaging
Indocyanine green  Methylene blue
Multispectral image in mouse lymph node

Hypoxia and Tumor Microenvironments
Oxygen saturation in a 3D mouse hind limb tumor

Contrast Imaging
Tumor perfusion in a mouse model with VevoCQ™ software

Tumor Growth & Progression
Volume = 115.95 mm³

3D volume quantification