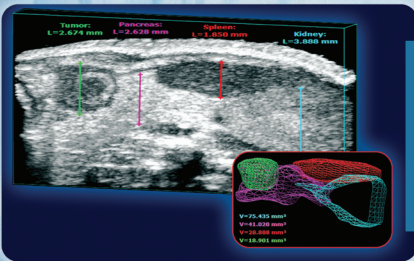
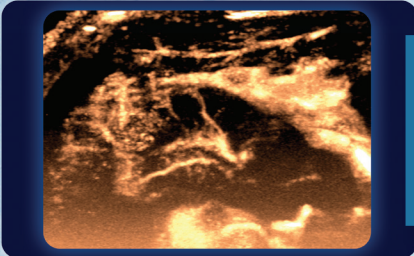


STILL USING OPTICAL FOR IN VIVO IMAGING?



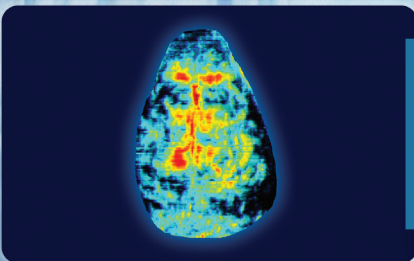
VOLUME

Ultrasound image showing pancreatic tumor and surrounding anatomy with volumes



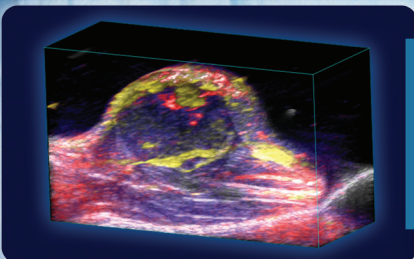
BLOOD FLOW/PERFUSION

Nonlinear contrast image showing vascularity of liver metastases



ISCHEMIA/HYPOXIA

Photoacoustic image of mouse brain oxygen saturation



MOLECULAR

Multispectral photoacoustic image of nanoparticle distribution in a tumor

see
WHAT
YOU'VE
BEEN
MISSING!

To learn more about FUJIFILM VisualSonics and our photoacoustic imaging system the Vevo LAZR, speak to one of our knowledgeable representatives or visit our website at www.visualsonics.com.

The Vevo LAZR Imaging System by FUJIFILM VisualSonics

Photoacoustic imaging is a new in vivo hybrid imaging modality that combines the sensitivity and contrast of optical imaging with the depth and resolution of ultrasound. When pulsed laser light illuminates tissue, the optical absorbers there (such as hemoglobin) undergo thermoelastic expansion, generating an acoustic pressure wave which is detected with an ultrasound transducer.

The Vevo LAZR system incorporates photoacoustic imaging into high-resolution ultrasound. The ultrasound imaging provides a high-resolution frame-of-reference for identifying anatomy, while the photoacoustic imaging enables functional measurements such as oxygen saturation, total hemoglobin and the microdistribution of biomarkers.



Vevo LAZR

WHY PHOTOACOUSTICS?

Oxygen Saturation Quantification

- Hypoxia
- Ischemia
- Hemodynamics

Multispectral Imaging

- Optical dyes
- Nanoparticles
- Molecular targeting

APPS

- Cancer
- Lymphatics
- Ischemia
- Vascular
- Neurobiology
- Molecular
- Cardiology

V=75.435 mm³
V=18.020 mm³
V=28.888 mm³
V=18.901 mm³

COMPETITIVE EDGE

- High resolution at depth
- Real-time
- 3D Volumes
- Multi-modality
- High-throughput
- Interventional procedures

Data

- Anatomical
- Functional
- Molecular

