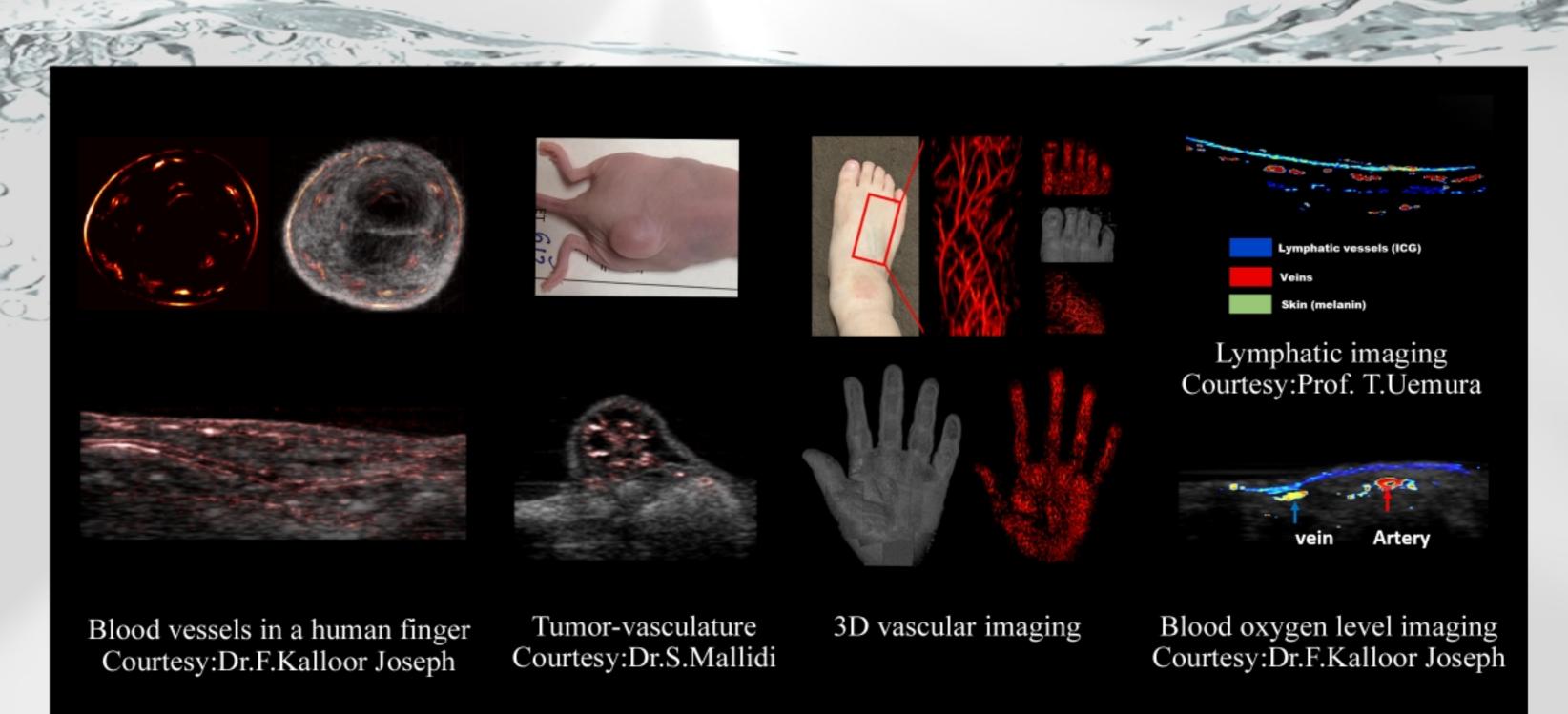


Photoacoustic Imaging System Using LED Light Source

Wide selectable optical wavelength range, multispectral analysis for functional imaging, 3D volumetric analysis, portability, and no need of laser - safe rooms and eye-safety goggles





LED array light source Photoacoustic Imaging System



Specification:

Wavelength

Maximum depth 40mm

Light source High Density High Power LED

Combination: 690/850, 750/850, 820/940 Frequency: selectable among 1,2,3,4kHz

Pulse Width: selectable from 30ns through

150ns

Driver ports 4

Transducer Selectable from 7MHz or 10MHz Linear

690,750, 820, 850, 940nm,

array transducer

PA processing 128ch parallel receiving

channels

Scan mode Photoacoustic 2D, Ultrasound 2D

External trigger For pulsed laser system

output

Power AC 100 V - 240 V

Monitor Color LCD

Software 3D imaging package(Integrated automatic

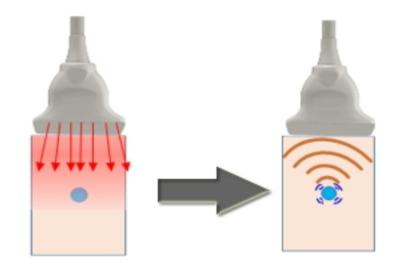
Option stage), Oxygenation package, High Speed

PA imaging package, Raw data accessible

Environment No protective goggles needed

No need to define laser class

Principle of photoacoustic imaging



Illuminated pulsed light while scattering through tissue is absorbed at specific locations by molecules such as hemoglobin in blood. The absorbed optical energy leads to generation of ultrasound that can be detected at surface of the tissue. The acquired signals are then used to reconstruct the location and spatial details of the absorber.



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