

Abstract.

Optoacoustic microscopy was applied for investigation of layered model and real biological tissues. Optoacoustic microscopy is based on optoacoustic effect. Laser radiation is absorbed with investigated tissue it lead to ultrasonic waves generation. The wave is detected with high speed piezotransducer.

Real biological tissues- pig skin and human skin were investigated using OA-microscopy. The thickness of layers were measured. Utilities of optoacoustic microscopy for skin lesion diagnostic is shown.