

Laser Industry Encouragement Award



# Photoacoustic Microscope Hadatomo™ Z

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**ADVANTEST CORPORATION**

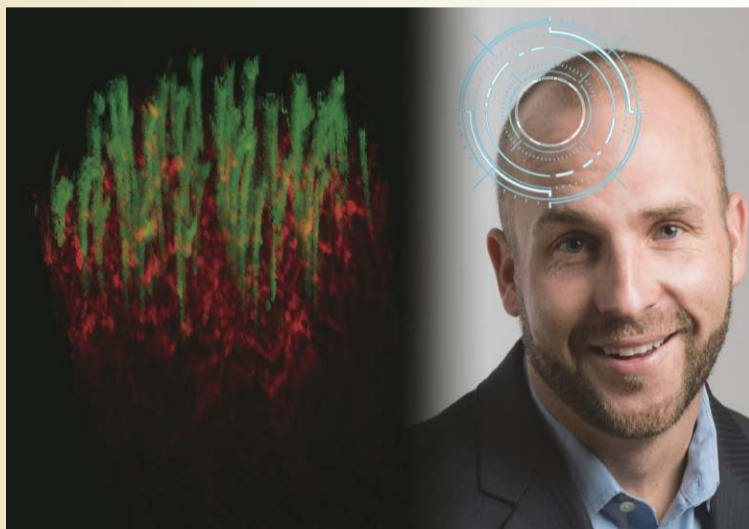


Image of hair (melanin) and blood vessels



Image of blood vessels in the cuticle of fingernail and under nail



## New non-invasive photoacoustic in-vivo imaging method

### Features

- A new method for creating 3D images by obtaining ultrasound waves originating from materials (melanin, blood, etc.) that absorb the energy of irradiated pulsed light.
- Simultaneous acquisition of the structure of blood vessels and the distribution of melanin with dual-wavelength photoacoustic imaging, and of the dermal structure with ultrasound imaging.

### Application

- Biological (dermatological) research