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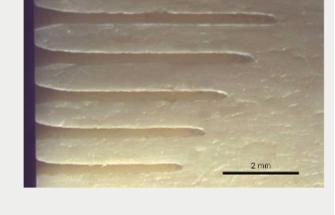
Optical Biomedical Imaging

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For medical lasers, the future may include both addition and subtraction. That's

Medical Lasers Cut and Heal

because in medicine, lasers have traditionally been used for ablation, cutting and other processes that remove tissue. Now researchers and companies are looking into harnessing the power of light to stimulate a bioresponse, thereby triggering growth and ushering in an additive approach.



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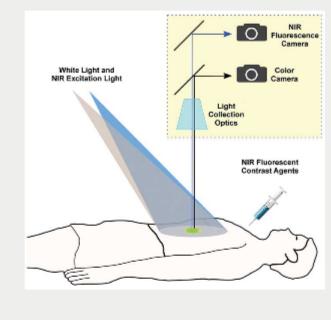




Fluorescence Imaging Enters the Surgical Suite

applications that measure the spectral response of tissue to various wavelengths of light. These applications, in a lab or proof-of-principle setup, have proven the usefulness of spectral imaging to strengthen diagnosis by uncovering information hidden in the spectral signature.

In the last decade, researchers have worked extensively on medical devices and





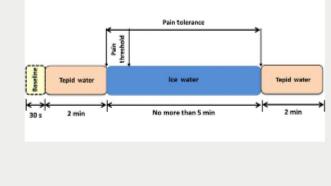






fNIRS Tool Measures Brain's Response to Acute Pain Functional near-infrared spectroscopy (fNIRS) — an optical imaging tool for

monitoring regional blood flow and tissue oxygenation — is being explored as an option to track the brain's response to acute pain in adults and infants. The fNIRS technique is portable and noninvasive, which is an advantage over other hemodynamic-based imaging techniques. It also does not require ionizing radiation or drug injection and can withstand a certain amount of motion.



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Lighting up the Lungs to Detect Disease A novel imaging tool that rapidly diagnoses bacterial lung infections could help

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Holographic Technique Traps Microscopic Objects With Irregular Shapes

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An optical manipulation technique that can securely control the position, orientation and shape of non-spherical microscopic samples, such as living cells, could have direct applications in biophotonics and soft matter physics.

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Jellyfish Proteins Used to Create Unconventional Laser

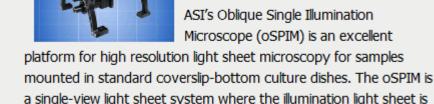






optical computing, and aid in new biomedical applications. Read Article

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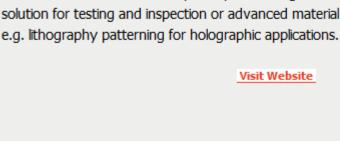


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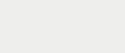
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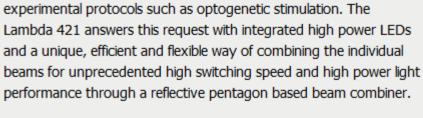


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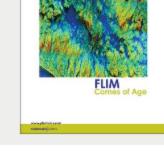
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