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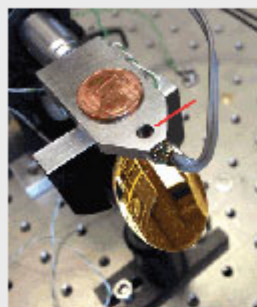
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# BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES

Wednesday, May 28, 2014

## Photoacoustics Applications Expand Beyond Cancer

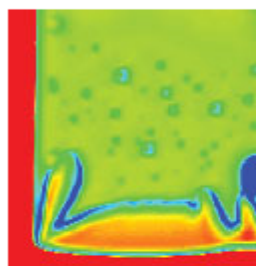


In March, the first article in this two-part series looked at the potential of photoacoustic technologies to revolutionize cancer detection. The second part will examine uses in diagnosing blood disorders, monitoring diabetes and more. Advances in optoacoustic/photoacoustic technologies will impact biological discoveries and also clinical applications.

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## Challenges Not Insurmountable for Terahertz Spectroscopy

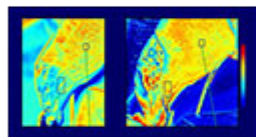


Cost, size and power must be addressed before terahertz spectroscopy can broaden its commercial acceptance – but steps are being taken. Today, terahertz spectroscopy shows promise for some fascinating applications, from detecting illicit drugs and counterfeit pharmaceuticals to measuring the water content of plants and identifying hazardous trace gases.

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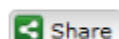


## Hyperspectral Imaging Reduces Threat of Amputation



Hyperspectral imaging (HSI) can help surgeons make quick decisions in the operating room, as it detects issues not visible to the naked eye. Dallas surgeon Javier La Fontaine, Ph.D. explained at the recent Photonics West 2014 conference that using this imaging technique can reduce the threat of amputation.

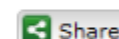
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## Laser Sensor Speeds Up Salmonella Detection

A new laser sensor can identify salmonella bacteria in food samples as much as three times faster than conventional detection methods. Developed by researchers at Purdue University, the sensor, called BARDOT (bacterial rapid detection using optical scatter technology), scans bacteria colonies and generates a distinct black-and-white "fingerprint" to identify the bacteria in less than 24 hours.

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## Biophotonics Products



### Laser Systems

**Laserglow Technologies**  
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### IK-HD5 Camera

**Toshiba Imaging Systems**  
Toshiba Imaging has released the IK-HD5, a full HD progressive-scan 3CMOS camera for use in color-critical applications.

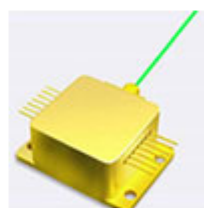
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### Femtosecond Laser

**Spectra-Physics**, a Newport Company  
Spectra-Physics has introduced the HighQ-2, an ultracompact fixed-wavelength femtosecond laser suitable for industrial and biomedical applications.

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### Laser Diode

**Frankfurt Laser Company**  
Frankfurt Laser Company has introduced the FBLD-980-10-FC-HHL fiber-coupled, high-power laser diode for medical applications.

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## Industry Events

### Photonex Roadshow Scotland 2014 - June 4, 2014 · Edinburgh, Scotland



This roadshow brings together the UK's top photonics technology supplier companies, leading researchers and invited speakers for a very special one-day conference: Advanced in photonic tools and techniques for the life sciences.

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