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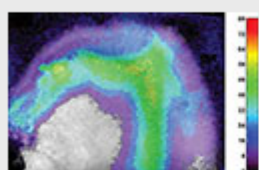
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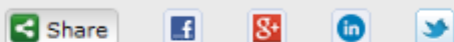
Wednesday, February 24, 2016

Fluorescence Lifetime Imaging Made Easy



Fluorescence lifetime imaging microscopy, which measures the spatial distribution of the fluorescence decay, can be achieved either in the time or in the frequency domain. Each approach exhibits advantages and disadvantages, depending on the type of light detector and acquisition method employed.

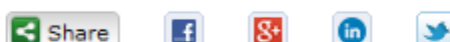
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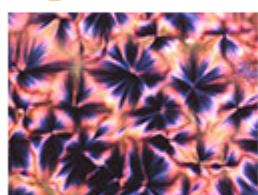
Thermal Contrast Technique Reveals Cell Characteristics

A label-free technique based on a thermoelastic lens has been used to capture images of single cells with 2- μ m resolution. The method could be used to perform histological analysis and for disease detection in tissue samples.

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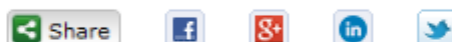


Diagnostic Method Explores Birefringence of Liquid Crystals



A detection system that uses birefringence as the sole optical output signal holds promise as a low-cost, rapid diagnostic tool for identifying biomarkers, viruses, bacteria and parasites in the field.

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TOPTICA Photonics, Inc.
The FemtoFiber dichro series simultaneously provides two perfectly synchronized laser beams at different wavelengths out of one box, even from the same aperture.

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Global Shutter Cameras

Basler AG
Basler AG has expanded its dart and pulse camera series to include e2v Technologies plc's EV76C570 camera sensor with a pixel size of 4.5 \times 4.5 μ m.

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Applied Scientific Instrumentation, Inc.
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DPSS Lasers for Flow Cytometry

Laserglow Technologies
Laserglow lasers are integrated into several OEM cytometry systems where our DPSS systems provide the light source in a stable, cost-effective manner.

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The fixed frequency resonant optical scanner deflects a light beam with a continuous sinusoidal motion.

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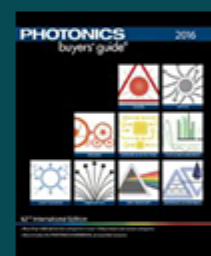
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OBLIQUE SINGLE PLANE ILLUMINATION MICROSCOPE (OSPI)

The oSPIM is two microscopes in one. The lower microscope can be used for conventional fluorescent imaging including WF, confocal, and TIRF. The bottom objective is also used for light sheet (SPIM) illumination, with light sheet imaging from the tilted top objective.

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