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THE PULSE OF THE INDUSTRY



Wednesday, March 25, 2015

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DEADLINE FOR ABSTRACTS APPROACHING!

Call for Presentations **Biophotonic Imaging** for Medicine: A Digital Conference PHOTONICS MEDIA

Photonics Media is seeking presenters for "Biophotonic Imaging for Medicine," a free digital conference to be held June 11. We invite presentations from researchers, clinicians and engineers working at the graduate, doctoral and professional levels. Topics of interest include light-sheet microscopy, optical coherence tomography, photoacoustics, computational imaging and more. Visit www.photonics.com/bioconference to find out more and submit an abstract.

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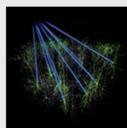
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illumination applications

Diverse Applications Drive Lasers for Multiphoton Microscopy



After years of domination by a single ultrafast laser technology (Ti:S) and its associated add-ons, laser manufacturers have broadened their technology portfolios to better support a diversified and dynamic nonlinear imaging applications space.

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The first article in this two-part series looked at Raman spectroscopy applications in tumor surgery, endoscopy and bacterial identification. This second part examines applications in cell sorting, laser trapping, biology probing and more.

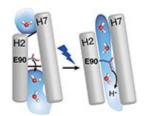
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Deeper understanding of the molecular mechanisms of a lightsensitive protein could lead to more specialized optogenetics techniques. Researchers at Ruhr University Bochum probed channelrhodopsin-2, which is already widely used in optogenetics experiments, using time-resolved Fourier-transform infrared spectroscopy.

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Optogenetics Used to Induce REM Sleep in Mice

Optogenetic activation of certain brain cells could be used to induce rapid-eye-movement sleep, which is crucial for keeping both body and mind healthy.

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Newport Corporation The VIP100 vibration isolation platform by Newport Corp. is designed for laboratory and industrial OEM applications.

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Microscopy Software

PicoQuant GmbH PicoQuant has released version 2.0 of its SymPhoTime 64 software package for fluorescence lifetime imaging microscopy (FLIM) and fluorescence correlation spectroscopy (FCS).

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SPIE.DSS SPIE DSS 2015 hosts the most important technical conferences and exhibition on optics, imaging, and sensing for defense, security, industry,

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