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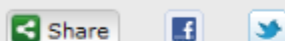
Wednesday, August 27, 2014

Streamlined Lasers Enable Lower-Cost Instruments than LEDs



Biotech instrumentation manufacturers are currently developing products that feature increased miniaturization and lower costs per use, in part to support worldwide trends in health care. For instruments based on fluorescence, this has opened a debate as to whether the laser or the LED represents the best choice for a light source. The superior performance of lasers is well known, but it may not be obvious that lasers nearly always also represent a lower-cost option.

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The Promise of Advanced Laser-Based Therapy



From dental surgery to gene therapy, laser applications in medicine are increasingly numerous and diverse. It started with mouse hairs. In 1967, Dr. Endre Mester of Semmelweis Medical University in Budapest, Hungary, recognized that a low-power ruby laser could stimulate faster hair regrowth in mice. Since then, lasers have increasingly become an important instrument in the physician's toolbox.

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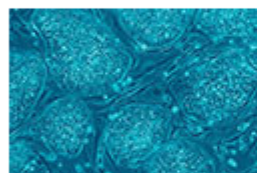
Adaptive Optics Detect Early Diabetes Eye Damage

Vision loss is a threat for millions of those suffering from diabetes. The earlier it can be detected, the sooner and potentially more effectively it can be treated. Researchers from Indiana University have developed a new technique and instrument for detecting early warning signs of diabetic retinopathy, with the promise of enhanced diagnosis and better treatment.

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Hyperspectral Analysis Distinguishes Cells



Hyperspectral imaging (HSI) may soon expand its portfolio beyond mineralogy and food safety testing. A new label-free technique, developed by a team from Macquarie University, distinguishes all types of cells using only the natural autofluorescence of biological tissue, rather than biomarkers and staining compounds.

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Biophotonics Products



Tunable Diode Lasers

TOPTICA Photonics, Inc.
TOPTICA introduces a new family of Continuously Tunable Lasers!

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Green Laser Diodes

World Star Technologies
World Star Tech has released two green laser diodes with an optical output of 30 and 50 mW.

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Fiber-Coupled 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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Nonbrowning Zoom Lens

Resolve Optics Ltd.
Resolve Optics Ltd.'s Model 192 nonbrowning 6x zoom lens operates in application areas subject to radiation, including medicine, academia, industry, agriculture, archaeology, food, space exploration and law enforcement, and for generating electricity at nuclear power plants.

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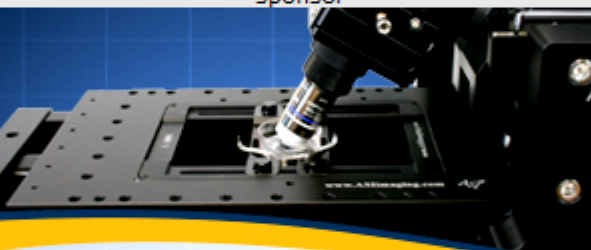
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WHITE PAPER

Diagnosis of Skin Tumors During Mohs Micrographic Surgery

Andor Technology plc, Corporate Headquarters

Automated imaging and objective diagnosis of excised tissue specimens during cancer surgery is a promising approach for increasing the efficiency of the most advanced surgical procedure. Firstly, this quantitative approach can increase the efficacy of surgery by eliminating the errors related to the subjective inter-observer evaluation of histopathological sections. Secondly, the multimodal spectral histopathology can be applied to tissue sections as well as tissue block, thus eliminating the timeconsuming procedures required for preparation of frozen sections required for histopathology.

[DOWNLOAD WHITE PAPER >>](#)

Industry Events

Strategies in Biophotonics - September 9 - 11, 2014 · Boston, MA
Visit Photonics Media at Booth 205



Strategies in Biophotonics will center on advancing the development and successful commercialization of optics and photonics technologies for the life sciences. During this two-day conference and exposition, with a pre-conference workshop, attendees will learn about current and emerging technologies and market trends, and how to develop and introduce new products for the marketplace.

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